

# Sheet (MSDS) Material Safety Data

# Summary Material Safety Data Sheet (MSDS)

Product: MASTAZYME AI ELISA

Art.-No.: various

Basic UDI-DI: various

**UDI-DI:** various

### Hersteller

Mast Diagnostica GmbH Feldstraße 20 23858 Reinfeld Deutschland Tel. +49 (0) 4533 2007 0 Fax. +49 (0) 4533 2007 68 mast@mast-diagnostica.de

## **Product components**

The following components are part of the kit:

Component	Describtion	Page
MASTAZYME AI	1.5 mL stabilized human plasma	3-18
ELISA controls		2-10
MASTAZYME	1.5 mL stabilized human plasma	
Cardiolipin		19-34
controls		
MASTAZYME	1.5 mL stabilized human plasma	35-49
dsDNA controls		33-43
MASTAZYME AI	60 mL sample diluent	50-65
diluent		30-03
MASTAZYME	60 mL sample diluent	
Cardiolipin		66-81
diluent		
MASTAZYME AI	12 mL HRP-labelled goat anti-human-	82-95
ELISA conjugate	IgG	82-33
MASTAZYME	12 mL HRP-labelled goat anti-human-	
Cardiolipin	IgG	96-109
conjugate		
MASTAYME TMB-	12 mL 3,3', 5,5' Tetramethylbenzidin	
substrate		110-125
autoimmune		
MASTAZYME stop	12 mL 0.25 M H <sub>2</sub> SO <sub>4</sub> (sulfuric acid)	126-139
solution 0.25 M		120-139
MASTAZYME	50 mL washing buffer	140-153
wash buffer		140-133



**MASTAZYME AI-ELISA controls** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name/designation MASTAZYME AI-ELISA controls

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

### Relevant identified uses

### remark

The product is intended for professional use.

### Sector of uses [SU]

SU20 Health services

### 1.3 Details of the supplier of the safety data sheet

### Manufacturer

Mast Diagnostica GmbH

Feldstraße 20

Deutschland-23858 Reinfeld Telephone: +49 4533 20 07 00 Telefax: +49 4533 2007 68

E-mail: mast@mast-diagnostica.de

www.mast-group.com

### 1.4 Emergency telephone number

Only available during office hours.

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

### Additional information

The mixture is not classified as hazardous according to Regulation (EC) No 1272/2008 [CLP].

### Classification according to Regulation (EC) No 1272/2008 [CLP]

### health hazards

hazard statements for health hazards

none

### **Physical hazards**

hazard statements for physical hazards

none

### **Environmental hazards**

none

### Additional hazards

none

### Specific concentration limit (SCL)

Hazard classes and hazard categories

none

### 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

### Signal word

none

### **Hazard statements**

Hazard statements for physical hazards

none

### hazard statements for health hazards



**MASTAZYME AI-ELISA controls** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

### Hazard statements for environmental hazards

none

Hazard statements for additional hazards

none

### **Precautionary statements**

General:

none

Prevention

none

Response:

none

Storage:

none

Disposal:

none

### Supplemental hazard information

Physical properties

none

health hazard properties

none

**Environmental properties** 

none

### Other labelling

### Standard phrases for special risks for humans or the environment

none

Labelling for contents according to regulation (EC) No. 648/2004

none

### Standard phrases for safety precautions for the protection of humans or the environment

### General provisions

none

Safety precautions for operators (SPo)

none

Safety precautions related to the environment (SPe)

none

Safety precautions related to good agricultural practice (SPa)

none

Specific safety precautions for rodenticides (SPr)

none

### Standard phrases for special risks for humans or the environment

Special risks related to humans (RSh):

none

Special risks related to the environment (RSe):

none

### 2.3 Other hazards

### Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.



1.0

**MASTAZYME AI-ELISA controls** 

Print date 11.10.2024 Revision date 05.01.2024 Version

### Adverse human health effects and symptoms

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

### Adverse physicochemical effects

### Other adverse effects

none

### Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### **SECTION 3: Composition / information on ingredients**

### 3.1/3.2 Substances/Mixtures

### **Hazardous ingredients**

sodium azide

CAS 26628-22-8

EC 247-852-1

INDEX 011-004-00-7

Acute Tox. 2, H300 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-

>=0.03 - <=0.05 %

0 - <= 0.09 %

isothiazol-3-one (3:1)

CAS 55965-84-9 INDEX 613-167-00-5

Acute Tox. 2, H330 / Acute Tox. 2, H310 / Acute Tox. 3, H301 / Skin

Corr. 1C, H314 / Eye Dam. 1, H318 / Skin Sens. 1A, H317 / Aquatic

Acute 1, H400 / Aquatic Chronic 1, H410

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

### **General information**

No special First Aid measures are required.

### Following skin contact

Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleansing agent and water.

### After eve contact

Rinse immediately carefully and thoroughly with eye-bath or water.

### Following ingestion

Rinse mouth thoroughly with water.

### Self-protection of the first aider

none

### 4.2 Most important symptoms and effects, both acute and delayed

### **Effects**

none

### **Symptoms**

none

### 4.3 Indication of any immediate medical attention and special treatment needed

### Notes for the doctor

none

### Special treatment



**MASTAZYME AI-ELISA controls** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

### **SECTION 5: Firefighting measures**

### **Additional information**

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

### 5.1 Extinguishing media

### Suitable extinguishing media

Water

Sand

Carbon dioxide (CO2)

Extinguishing powder

### Unsuitable extinguishing media

none

### 5.2 Special hazards arising from the substance or mixture

### **Hazardous combustion products**

none

### 5.3 Advice for firefighters

### Special protective equipment for firefighters

No special equipment or techniques are required.

### **SECTION 6: Accidental release measures**

### **Additional information**

Absorb and remove liquid with absorbent material. Clean the affected surface with standard cleaning agents.

### 6.1 Personal precautions, protective equipment and emergency procedures

### For non-emergency personnel

### **Personal precautions**

none

### **Protective equipment**

none

### For emergency responders

### Personal protection equipment

none

### 6.2 Environmental precautions

none

### 6.3 Methods and material for containment and cleaning up

### For containment

### Suitable material for taking up

Commercially available materials are sufficient.

### For cleaning up

### Suitable material for diluting or neutralizing

Water

### 6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

### Advices on general occupational hygiene

Provide eye shower and label its location conspicuously



**MASTAZYME AI-ELISA controls** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

### **Protective measures**

### Advices on safe handling

No special technical protective measures are necessary.

### Measures to prevent fire

No special fire protection measures are necessary.

### **Environmental precautions**

No special technical protective measures are necessary.

### 7.2 Conditions for safe storage, including any incompatibilities

### Technical measures and storage conditions

Storage conditions are listed on the labels. Additional information concerning the storage are given in the instructions for use.

### Hints on joint storage

### Materials to avoid

none

### Further information on storage conditions

Protect against:

UV-radiation/sunlight

Temperatures outside the listed range.

### storage temperature

Value >=2 - <=8 °C

### 7.3 Specific end use(s)

### Recommendation

Observe instructions for use.

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

### Occupational exposure limit values

CAS No.	Substance name	LTV	STV	remark
26628-22-8	Sodium azide	0,1 mg/m³	0,3 (1) mg/m³	(1) 15 minutes average value Bold-type: Indicative Occupational Exposure Limit Value (IOELV) ~

European Union

LTV = long-term occupational exposure limit value STV = short-term occupational exposure limit value

source: GESTIS International Limit Values (http://limitvalue.ifa.dguv.de/)

Monitoring and observation processes: GESTIS Analytical Methods (http://amcaw.ifa.dguv.de/)

### Exposure limits at intended use

### biological limit values

remark

No data available

### **DNEL-/PNEC-values**

### **DNEL Consumer**

Substance name sodium azide

type

systemic



**MASTAZYME AI-ELISA controls** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

source

TRGS900

Value 0,493 mg/m<sup>3</sup>

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

type

local

source

Deutschland. MAK- und BAT Anhang IIa

Value 0,02 mg/m<sup>3</sup>

**PNEC** 

Value 0,35 µg/L

**PNEC** type

aquatic, freshwater

**Value** 0,015 μg/L

**PNEC** type

aquatic, marine water

Value 0,0167 mg/kg

**PNEC** type

sediment, freshwater

Value 30 µg/L

**PNEC type** 

sewage treatment plant

### 8.2 Exposure controls

### Appropriate engineering controls

remark

See section 7. No additional measures necessary.

Personal protection equipment

Eye/face protection

Suitable eye protection

Eye glasses

Eye glasses with side protection

Skin protection

Suitable gloves type

Disposable gloves

Suitable material

NBR (Nitrile rubber)

**Body protection** 

Suitable protective clothing

lab coat

**Respiratory protection** 

none

**Environmental exposure controls** 

remark

See section 7. No additional measures necessary.

**Consumer exposure controls** 

Measures related to consumer uses of the substance (as such or in preparations).

not relevant



**MASTAZYME AI-ELISA controls** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

Measures related to the service life of the substance in articles not relevant

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

### **Appearance**

**Physical state** 

liquid

Colour

yellow

Odour

odourless

### **Odour threshold**

not relevant

Melting point/freezing pointNo data availableBoiling point or initial boiling pointNo data availableflammabilitynot relevantUpper explosion limitnot relevantlower explosion limitnot relevantFlash point (°C)not relevantAuto-ignition temperaturenot relevantDecomposition temperaturenot relevantpHNo data availableKinematic viscosityNo data availableWater solubilityNo data availableSoluble (g/L) innot relevantFat solubilityNo data availablePartition coefficient: n-octanol/waterNo data availableVapour pressureNo data availableDensity and/or relative densityNo data availableRelative vapour densityNo data availableparticle characteristicsnot relevantDynamic viscosityNo data availableflow timeNo data available		parameter	Method - source - remark
flammability not relevant Upper explosion limit not relevant lower explosion limit not relevant lower explosion limit not relevant Flash point (°C) not relevant Auto-ignition temperature not relevant Decomposition temperature not relevant  PH No data available Kinematic viscosity No data available Water solubility No data available Soluble (g/L) in not relevant Fat solubility No data available Partition coefficient: n-octanol/water No data available Partition relevant Vapour pressure No data available Density and/or relative density No data available Relative vapour density No data available particle characteristics not relevant No data available No data available Relative vapour density No data available particle characteristics not relevant	Melting point/freezing point		No data available
Upper explosion limit not relevant No data available Partition coefficient: n-octanol/water No data available No data available No data available Partition coefficient: n-octanol/water No data available No data available No data available Partition coefficient: n-octanol/water No data available No data available No data available Relative vapour density No data available not relevant No data available particle characteristics No data available No data available No data available particle characteristics No data available No data available	Boiling point or initial boiling point and boiling range		No data available
lower explosion limit Flash point (°C) not relevant Auto-ignition temperature not relevant Decomposition temperature not relevant pH No data available Kinematic viscosity No data available Water solubility Soluble (g/L) in Fat solubility No data available Partition coefficient: n-octanol/water Vapour pressure Density and/or relative density Relative vapour density No data available Relative vapour density Dynamic viscosity No data available	flammability		not relevant
Flash point (°C) Auto-ignition temperature Decomposition temperature pH No data available Kinematic viscosity No data available Water solubility Soluble (g/L) in Fat solubility No data available Partition coefficient: n-octanol/water Vapour pressure No data available Density and/or relative density Relative vapour density No data available particle characteristics No data available	Upper explosion limit		not relevant
Auto-ignition temperature Decomposition temperature not relevant  pH No data available Kinematic viscosity No data available Water solubility No data available Soluble (g/L) in not relevant Fat solubility No data available Partition coefficient: n-octanol/water No data available Vapour pressure No data available Density and/or relative density Relative vapour density No data available particle characteristics not relevant No data available	lower explosion limit		not relevant
Decomposition temperature  pH  No data available  Kinematic viscosity  No data available  Water solubility  No data available  Soluble (g/L) in  Fat solubility  No data available  Partition coefficient: n-octanol/water  Vapour pressure  No data available  Density and/or relative density  Relative vapour density  No data available  particle characteristics  not relevant  No data available	Flash point (°C)		not relevant
pH Kinematic viscosity No data available Water solubility No data available Soluble (g/L) in not relevant Fat solubility No data available Partition coefficient: n-octanol/water No data available Vapour pressure No data available Density and/or relative density Relative vapour density No data available particle characteristics No data available	Auto-ignition temperature		not relevant
Kinematic viscosity  Water solubility  Soluble (g/L) in  Fat solubility  Partition coefficient: n-octanol/water  Vapour pressure  Density and/or relative density  Relative vapour density  Dynamic viscosity  No data available	Decomposition temperature		not relevant
Water solubility  Soluble (g/L) in  Fat solubility  No data available  Partition coefficient: n-octanol/water  Vapour pressure  Density and/or relative density  Relative vapour density  particle characteristics  Dynamic viscosity  No data available  No data available  No data available  not relevant  No data available  No data available  No data available  No data available	рН		No data available
Soluble (g/L) in not relevant  Fat solubility No data available  Partition coefficient: n-octanol/water No data available  Vapour pressure No data available  Density and/or relative density No data available  Relative vapour density No data available  particle characteristics No data available  particle characteristics No data available  No data available  No data available  No data available	Kinematic viscosity		No data available
Fat solubility  Partition coefficient: n-octanol/water  Vapour pressure  Density and/or relative density  Relative vapour density  No data available  not relevant  Dynamic viscosity  No data available	Water solubility		No data available
Partition coefficient: n-octanol/water  Vapour pressure  No data available  particle characteristics  not relevant  Dynamic viscosity  No data available	Soluble (g/L) in		not relevant
Vapour pressure  Density and/or relative density  Relative vapour density  particle characteristics  Dynamic viscosity  No data available  not relevant  No data available  No data available	Fat solubility		No data available
Density and/or relative density  Relative vapour density  No data available  No data available  particle characteristics  not relevant  Dynamic viscosity  No data available	Partition coefficient: n-octanol/water		No data available
Relative vapour density  particle characteristics  Dynamic viscosity  No data available  not relevant  No data available	Vapour pressure		No data available
particle characteristics not relevant  Dynamic viscosity No data available	Density and/or relative density		No data available
Dynamic viscosity  No data available	Relative vapour density		No data available
	particle characteristics		not relevant
flow time No data available	Dynamic viscosity		No data available
	flow time		No data available



**MASTAZYME AI-ELISA controls** 

Print date 11.10.2024 Revision date 05.01.2024

parameter Method - source - remark

Version

Thermal sensitivity

A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the srructural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).

1.0

Sensitiveness to impact (J)

A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the srructural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).

Sensitivity to friction (N)

A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).

not relevant

Oxidising liquids No data available

Oxidising solids not relevant

### 9.2 Other information

### Physical hazards

Oxidising gas

### **Explosives**

### Justification for data waiving

The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.

### Flammable gases

### Justification for data waiving

not relevant

### **Aerosols**

### Justification for data waiving

Testing can be waived because substance is not an aerosol.



### **MASTAZYME AI-ELISA controls**

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

### Oxidising gas

### Justification for data waiving

Testing can be waived because substance is a liquid.

### Gases under pressure

### Justification for data waiving

Testing can be waived because substance is a liquid.

### flammable liquids

### Justification for data waiving

not relevant

### Flammable solids

### Justification for data waiving

Testing can be waived because substance is a liquid.

### Self-reactive substances and mixtures

### Justification for data waiving

The classification procedures for self-reactive substances and mixtures need not be applied because there are no chemical groups present in the molecule associated with explosive or selfreactive properties.

### **Pyrophoric liquids**

### Justification for data waiving

The study does not need to be conducted because the substance is known to be stable at room temperature for prolonged periods of time (days).

### **Pyrophoric solids**

### Justification for data waiving

Testing can be waived because substance is a liquid.

### self-heating substances and mixtures

### Justification for data waiving

not relevant

### Substances or mixtures which, in contact with water, emit flammable gases

### Justification for data waiving

not relevant

### **Oxidising liquids**

### Justification for data waiving

not relevant

### Oxidising solids

### Justification for data waiving

Testing can be waived because substance is a liquid.

### Organic peroxides

### Justification for data waiving

Classification procedure not required, because the substance or the mixture is by definition not an organic peroxide.

### Corrosive to metals

### Justification for data waiving

not relevant

### **Desensitised explosives**

### Justification for data waiving

No data available

### **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.



**MASTAZYME AI-ELISA controls** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

### 10.2 Chemical stability

No hazardous reaction when handled and stored according to provisions. Further information on storage conditions: see subsection 7.2.

### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4 Conditions to avoid

Further information on storage conditions: see subsection 7.2.

### 10.5 Incompatible materials

No further relevant information available.

### 10.6 Hazardous decomposition products

Does not decompose when used for intended uses. No known hazardous decomposition products.

### **SECTION 11: Toxicological information**

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicokinetics, metabolism and distribution

### Human toxicological data

No data available

### Non-human toxikological data

### remark

There are no data available on the preparation/mixture itself.

### **Acute toxicity**

### Acute dermal toxicity

ingredient sodium azide

Acute dermal toxicity 18 mg/kg

### **Effective dose**

LD50:

### Species:

Rabbit

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute dermal toxicity 2,8 mg/kg

### **Effective dose**

LD50:

### Species:

Rabbit

### Acute inhalation toxicity (dust/mist)

ingredient sodium azide

Acute inhalation toxicity (dust/mist) 5,4 mg/kg

### **Effective dose**

LC50:

Exposure time 4

### Species:

Rat

### Acute inhalation toxicity (vapour)

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute inhalation toxicity (vapour) 16,67 mg/L

Exposure time 4 d

### Acute oral toxicity

ingredient sodium azide

Acute oral toxicity 27 mg/kg



**MASTAZYME AI-ELISA controls** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

### Effective dose

LD50:

### Species:

Rat

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute oral toxicity 862 mg/kg

### **Effective dose**

LD50:

### Species:

Rat

### skin corrosion/irritation

### Assessment/classification

No data available

### Respiratory or skin sensitisation

### Sensitisation to the respiratory tract

### Assessment/classification

No data available

### Skin sensitisation

### Assessment/classification

No data available

### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

### Germ cell mutagenicity

### Human toxicological data

### Result

not relevant

### In vitro mutagenicity/genotoxicity

### Genetic endpoint

not relevant

### In vivo mutagenicity/genotoxicity

### Result / evaluation

not relevant

### Carcinogenicity

### Result / evaluation

No data available

### Reproductive toxicity

### Assessment/classification

No data available

### Adverse effects on sexual function and fertility

### Result / evaluation

No data available

### Adverse effects on developmental toxicity

### Result / evaluation

No data available

### Effects on or via lactation

### Result

No data available



**MASTAZYME AI-ELISA controls** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

### STOT-single exposure

STOT SE 1 and 2

Dermal specific target organ toxicity (single exposure)

remark

No data available

Inhalative specific target organ toxicity (single exposure)

remark

No data available

Oral specific target organ toxicity (single exposure)

remark

No data available

STOT SE 3

Irritation to respiratory tract

Assessment/classification

No data available

**STOT-repeated exposure** 

STOT RE 1 and 2

Dermal specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Inhalative specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

**Oral specific target organ toxicity (repeated exposure)** 

Assessment/classification

No data available

Repeated dose toxicity (subacute, subchronic, chronic)

Subacute oral toxicity

remark

No data available

Subacute dermal toxicity

Specific effects:

No data available

Subacute inhalation toxicity

**Specific effects:** 

No data available

Subchronic dermal toxicity

Specific effects:

No data available

Subchronic inhalation toxicity

Specific effects:

No data available

Chronic oral toxicity

Specific effects:

No data available

**Chronic dermal toxicity** 



**MASTAZYME AI-ELISA controls** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

### Specific effects:

No data available

### **Chronic inhalation toxicity**

### Specific effects:

No data available

### 11.2 Information on other hazards

### **Endocrine disrupting properties**

### remark

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

### **Phototoxicity**

In vitro phototoxicity

evaluation

No data available

### In vivo phototoxicity

evaluation

No data available

### **SECTION 12: Ecological information**

12.1 Toxicity

**Aquatic toxicity** 

Acute (short-term) toxicity to crustacea

Result / evaluation

none

### Chronic (long-term) toxicity to aquatic invertebrate

remark

none

### Chronic (long-term) fish toxicity

Result / evaluation

none

### Acute (short-term) toxicity to algae and cyanobacteria

ingredient sodium azide

Acute (short-term) toxicity to algae and cyanobacteria 0,348 mg/L

Effective dose

EC50

Test duration 4 d

species

Alge/Wasserpflanze

### Chronic (long-term) toxicity to aquatic algae and cyanobacteria

evaluation parameter:

none

### Toxicity to other aquatic plants/organisms

Result / evaluation

none

### **Toxicity to microorganisms**

Result / evaluation



**MASTAZYME AI-ELISA controls** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

### **Terrestrial toxicity**

Effects on soil microorganisms

evaluation

none

Toxicity to soil macroorganisms except of arthropods

Acute earthworm toxicity

evaluation

none

**Chronical earthworm toxicity (reproduction)** 

evaluation

none

Toxicity to terrestrial arthropods

Insect toxicity

evaluation

none

Toxicity to terrestrial plants

Acute plant toxicity

evaluation

none

Chronic plant toxicity

evaluation

none

**Toxicity to birds** 

Acute and subchronic bird toxicity

evaluation

none

Bird reproduction toxicity

evaluation

none

Additional ecotoxicological information

**General information** 

none

12.2 Persistence and degradability

Assessment/classification

The substance meets the criteria of ready degradability as defined in Regulation (EC) No 1272/2008.

12.3 Bioaccumulative potential

Assessment/classification

not applicable

12.4 Mobility in soil

Assessment/classification

No data available

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

remark

No data available



**MASTAZYME AI-ELISA controls** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

### 12.7 Other adverse effects

No information available.

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

**Directive 2008/98/EC (Waste Framework Directive)** 

### Before intended use

Waste code product 180100

hazardous waste No

Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code product 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

### After intended use

Waste code packaging 180100

hazardous waste No

Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code packaging 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

### **SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	not applicable	not applicable	not applicable
14.2 Proper Shipping Name	not applicable	not applicable	not applicable
14.3 Class(es)	not applicable	not applicable	not applicable
14.4 Packing group	not applicable	not applicable	not applicable
14.5 Environmental hazards	not applicable	not applicable	not applicable
14.6 Special precautions for use	r not applicable	not applicable	not applicable
14.7 Maritime transport in bulk according to IMO instruments	not applicable	not applicable	not applicable

### Additional information

### All transport carriers

No dangerous good in sense of these transport regulations.

### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU legislation

Authorisations and/or restrictions on use

authorisations



Compiled in accordance with REACH Regulation (EC) No 1907/2006, as retained and amended in UK law
MASTAZYME AI-ELISA controls

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

### restrictions on use

none

### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

### **SECTION 16: Other information**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP] See SECTION 2.1 (classification).

### Indication of changes

not relevant

### **Additional information**

not relevant

### Relevant R-, H- and EUH-phrases (Number and full text)

none

### **Training advice**



1.0

**MASTAZYME Cardiolipin controls** 

Version

Print date 11.10.2024 Revision date 05.01.2024

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name/designation MASTAZYME Cardiolipin controls

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

### Relevant identified uses

### remark

The product is intended for professional use.

### Sector of uses [SU]

SU20 Health services

### 1.3 Details of the supplier of the safety data sheet

### Manufacturer

Mast Diagnostica GmbH

Feldstraße 20

Deutschland-23858 Reinfeld Telephone: +49 4533 20 07 00 Telefax: +49 4533 2007 68

E-mail: mast@mast-diagnostica.de

www.mast-group.com

### 1.4 Emergency telephone number

Only available during office hours.

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

### **Additional information**

The mixture is not classified as hazardous according to Regulation (EC) No 1272/2008 [CLP].

### Classification according to Regulation (EC) No 1272/2008 [CLP]

### health hazards

hazard statements for health hazards

none

### Physical hazards

hazard statements for physical hazards

none

### **Environmental hazards**

none

### Additional hazards

none

### Specific concentration limit (SCL)

Hazard classes and hazard categories

none

### 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

### Signal word

none

### **Hazard statements**

Hazard statements for physical hazards

none

### hazard statements for health hazards



**MASTAZYME Cardiolipin controls** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

Hazard statements for environmental hazards

none

Hazard statements for additional hazards

none

**Precautionary statements** 

General:

none

Prevention

none

Response:

none

Storage:

none

Disposal:

none

Supplemental hazard information

Physical properties

none

health hazard properties

none

**Environmental properties** 

none

Other labelling

Standard phrases for special risks for humans or the environment

none

Labelling for contents according to regulation (EC) No. 648/2004

none

Standard phrases for safety precautions for the protection of humans or the environment

General provisions

none

Safety precautions for operators (SPo)

none

Safety precautions related to the environment (SPe)

none

Safety precautions related to good agricultural practice (SPa)

none

Specific safety precautions for rodenticides (SPr)

none

Standard phrases for special risks for humans or the environment

Special risks related to humans (RSh):

none

Special risks related to the environment (RSe):

none

### 2.3 Other hazards

### Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.



**MASTAZYME Cardiolipin controls** 

Print date 11.10.2024 Revision date 05.01.2024 Version 1.0

### Adverse human health effects and symptoms

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

### Adverse physicochemical effects

none

### Other adverse effects

none

### Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### **SECTION 3: Composition / information on ingredients**

### 3.1/3.2 Substances/Mixtures

### **Hazardous ingredients**

sodium azide

CAS 26628-22-8

EC 247-852-1

INDEX 011-004-00-7

Acute Tox. 2, H300 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-

>=0,03 - <=0,05 %

0 - <= 0.09 %

isothiazol-3-one (3:1) CAS 55965-84-9

INDEX 613-167-00-5

Acute Tox. 2, H330 / Acute Tox. 2, H310 / Acute Tox. 3, H301 / Skin Corr. 1C, H314 / Eye Dam. 1, H318 / Skin Sens. 1A, H317 / Aquatic

Acute 1, H400 / Aquatic Chronic 1, H410

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

### **General information**

No special First Aid measures are required.

### Following skin contact

Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleansing agent and water.

### After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water.

### Following ingestion

Rinse mouth thoroughly with water.

### Self-protection of the first aider

none

### 4.2 Most important symptoms and effects, both acute and delayed

### **Effects**

none

### **Symptoms**

none

### 4.3 Indication of any immediate medical attention and special treatment needed

### Notes for the doctor

none

### **Special treatment**



**MASTAZYME Cardiolipin controls** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

### **SECTION 5: Firefighting measures**

### **Additional information**

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

### 5.1 Extinguishing media

### Suitable extinguishing media

Water

Sand

Carbon dioxide (CO2)

Extinguishing powder

### Unsuitable extinguishing media

none

### 5.2 Special hazards arising from the substance or mixture

### **Hazardous combustion products**

none

### 5.3 Advice for firefighters

### Special protective equipment for firefighters

No special equipment or techniques are required.

### **SECTION 6: Accidental release measures**

### **Additional information**

Absorb and remove liquid with absorbent material. Clean the affected surface with standard cleaning agents.

### 6.1 Personal precautions, protective equipment and emergency procedures

### For non-emergency personnel

### Personal precautions

none

### **Protective equipment**

none

### For emergency responders

### Personal protection equipment

none

### 6.2 Environmental precautions

none

### 6.3 Methods and material for containment and cleaning up

### For containment

### Suitable material for taking up

Commercially available materials are sufficient.

### For cleaning up

### Suitable material for diluting or neutralizing

Water

### 6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

### Advices on general occupational hygiene

Provide eye shower and label its location conspicuously



**MASTAZYME Cardiolipin controls** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

### **Protective measures**

### Advices on safe handling

No special technical protective measures are necessary.

### Measures to prevent fire

No special fire protection measures are necessary.

### **Environmental precautions**

No special technical protective measures are necessary.

### 7.2 Conditions for safe storage, including any incompatibilities

### Technical measures and storage conditions

Storage conditions are listed on the labels. Additional information concerning the storage are given in the instructions for use.

### Hints on joint storage

### Materials to avoid

none

### Further information on storage conditions

Protect against:

UV-radiation/sunlight

Temperatures outside the listed range.

### storage temperature

Value >=2 - <=8 °C

### 7.3 Specific end use(s)

### Recommendation

Observe instructions for use.

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

### Occupational exposure limit values

CAS No.	Substance name	LTV	STV	remark
26628-22-8	Sodium azide	0,1 mg/m³	0,3 (1) mg/m³	(1) 15 minutes average value Bold-type: Indicative Occupational Exposure Limit Value (IOELV) ~

European Union

LTV = long-term occupational exposure limit value STV = short-term occupational exposure limit value

source: GESTIS International Limit Values (http://limitvalue.ifa.dguv.de/)

Monitoring and observation processes: GESTIS Analytical Methods (http://amcaw.ifa.dguv.de/)

### Exposure limits at intended use

### biological limit values

remark

No data available

### **DNEL-/PNEC-values**

### **DNEL Consumer**

Substance name sodium azide

type

systemic



**MASTAZYME Cardiolipin controls** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

source

TRGS900

Value 0,493 mg/m<sup>3</sup>

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

type

local

source

Deutschland. MAK- und BAT Anhang IIa

Value 0,02 mg/m<sup>3</sup>

**PNEC** 

Value 0,35 µg/L

**PNEC** type

aquatic, freshwater

**Value** 0,015 μg/L

**PNEC** type

aquatic, marine water

Value 0,0167 mg/kg

**PNEC type** 

sediment, freshwater

Value 30 µg/L

**PNEC type** 

sewage treatment plant

### 8.2 Exposure controls

### Appropriate engineering controls

remark

See section 7. No additional measures necessary.

Personal protection equipment

Eye/face protection

Suitable eye protection

Eye glasses

Eye glasses with side protection

Skin protection

Suitable gloves type

Disposable gloves

Suitable material

NBR (Nitrile rubber)

**Body protection** 

Suitable protective clothing

lab coat

**Respiratory protection** 

none

**Environmental exposure controls** 

remark

See section 7. No additional measures necessary.

**Consumer exposure controls** 

Measures related to consumer uses of the substance (as such or in preparations).

not relevant



**MASTAZYME Cardiolipin controls** 

Print date 11.10.2024 Revision date 05.01.2024 Version 1.0

Measures related to the service life of the substance in articles not relevant

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

### **Appearance**

**Physical state** 

liquid

Colour

yellow

Odour

odourless

### **Odour threshold**

not relevant

Melting point/freezing pointNo data availableBoiling point or initial boiling pointNo data availableflammabilitynot relevantUpper explosion limitnot relevantlower explosion limitnot relevantFlash point (°C)not relevantAuto-ignition temperaturenot relevantDecomposition temperaturenot relevantpHNo data availableKinematic viscosityNo data availableWater solubilityNo data availableSoluble (g/L) innot relevantFat solubilityNo data availablePartition coefficient: n-octanol/waterNo data availableVapour pressureNo data availableDensity and/or relative densityNo data availableRelative vapour densityNo data availableparticle characteristicsnot relevantDynamic viscosityNo data availableflow timeNo data available		parameter	Method - source - remark
flammability not relevant Upper explosion limit not relevant lower explosion limit not relevant lower explosion limit not relevant Flash point (°C) not relevant Auto-ignition temperature not relevant Decomposition temperature not relevant  PH No data available Kinematic viscosity No data available Water solubility No data available Soluble (g/L) in not relevant Fat solubility No data available Partition coefficient: n-octanol/water No data available Partition relevant Vapour pressure No data available Density and/or relative density No data available Relative vapour density No data available particle characteristics not relevant No data available No data available Relative vapour density No data available particle characteristics not relevant	Melting point/freezing point		No data available
Upper explosion limit not relevant No data available Partition coefficient: n-octanol/water No data available No data available No data available Partition coefficient: n-octanol/water No data available No data available No data available Partition coefficient: n-octanol/water No data available No data available No data available Relative vapour density No data available not relevant No data available particle characteristics No data available No data available No data available particle characteristics No data available No data available	Boiling point or initial boiling point and boiling range		No data available
lower explosion limit Flash point (°C) not relevant Auto-ignition temperature not relevant Decomposition temperature not relevant pH No data available Kinematic viscosity No data available Water solubility Soluble (g/L) in Fat solubility No data available Partition coefficient: n-octanol/water Vapour pressure Density and/or relative density Relative vapour density No data available Relative vapour density Dynamic viscosity No data available	flammability		not relevant
Flash point (°C) Auto-ignition temperature Decomposition temperature pH No data available Kinematic viscosity No data available Water solubility Soluble (g/L) in Fat solubility No data available Partition coefficient: n-octanol/water Vapour pressure No data available Density and/or relative density Relative vapour density No data available particle characteristics No data available	Upper explosion limit		not relevant
Auto-ignition temperature Decomposition temperature not relevant  pH No data available Kinematic viscosity No data available Water solubility No data available Soluble (g/L) in not relevant Fat solubility No data available Partition coefficient: n-octanol/water No data available Vapour pressure No data available Density and/or relative density Relative vapour density No data available particle characteristics not relevant No data available	lower explosion limit		not relevant
Decomposition temperature  pH  No data available  Kinematic viscosity  No data available  Water solubility  No data available  Soluble (g/L) in  Fat solubility  No data available  Partition coefficient: n-octanol/water  Vapour pressure  No data available  Density and/or relative density  Relative vapour density  No data available  particle characteristics  not relevant  No data available	Flash point (°C)		not relevant
pH Kinematic viscosity No data available Water solubility No data available Soluble (g/L) in not relevant Fat solubility No data available Partition coefficient: n-octanol/water No data available Vapour pressure No data available Density and/or relative density Relative vapour density No data available particle characteristics No data available	Auto-ignition temperature		not relevant
Kinematic viscosity  Water solubility  Soluble (g/L) in  Fat solubility  Partition coefficient: n-octanol/water  Vapour pressure  Density and/or relative density  Relative vapour density  Dynamic viscosity  No data available	Decomposition temperature		not relevant
Water solubility  Soluble (g/L) in  Fat solubility  No data available  Partition coefficient: n-octanol/water  Vapour pressure  Density and/or relative density  Relative vapour density  particle characteristics  Dynamic viscosity  No data available  No data available  No data available  not relevant  No data available  No data available  No data available  No data available	рН		No data available
Soluble (g/L) in not relevant  Fat solubility No data available  Partition coefficient: n-octanol/water No data available  Vapour pressure No data available  Density and/or relative density No data available  Relative vapour density No data available  particle characteristics No data available  particle characteristics No data available  No data available  No data available  No data available	Kinematic viscosity		No data available
Fat solubility  Partition coefficient: n-octanol/water  Vapour pressure  Density and/or relative density  Relative vapour density  No data available  not relevant  Dynamic viscosity  No data available	Water solubility		No data available
Partition coefficient: n-octanol/water  Vapour pressure  No data available  particle characteristics  not relevant  Dynamic viscosity  No data available	Soluble (g/L) in		not relevant
Vapour pressure  Density and/or relative density  Relative vapour density  particle characteristics  Dynamic viscosity  No data available  not relevant  No data available  No data available	Fat solubility		No data available
Density and/or relative density  Relative vapour density  No data available  No data available  particle characteristics  not relevant  Dynamic viscosity  No data available	Partition coefficient: n-octanol/water		No data available
Relative vapour density  particle characteristics  Dynamic viscosity  No data available  not relevant  No data available	Vapour pressure		No data available
particle characteristics not relevant  Dynamic viscosity No data available	Density and/or relative density		No data available
Dynamic viscosity  No data available	Relative vapour density		No data available
	particle characteristics		not relevant
flow time No data available	Dynamic viscosity		No data available
	flow time		No data available



**MASTAZYME Cardiolipin controls** 

Print date 11.10.2024 Revision date 05.01.2024 Version 1.0

parameter Method - source - remark

Thermal sensitivity

A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).

Sensitiveness to impact (J)

A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).

Sensitivity to friction (N)

A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).

not relevant

Oxidising liquids No data available

Oxidising solids not relevant

### 9.2 Other information

### **Physical hazards**

Oxidising gas

### **Explosives**

### Justification for data waiving

The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.

### Flammable gases

### Justification for data waiving

not relevant

### **Aerosols**

### Justification for data waiving

Testing can be waived because substance is not an aerosol.



**MASTAZYME Cardiolipin controls** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

### Oxidising gas

### Justification for data waiving

Testing can be waived because substance is a liquid.

### Gases under pressure

### Justification for data waiving

Testing can be waived because substance is a liquid.

### flammable liquids

### Justification for data waiving

not relevant

### Flammable solids

### Justification for data waiving

Testing can be waived because substance is a liquid.

### Self-reactive substances and mixtures

### Justification for data waiving

The classification procedures for self-reactive substances and mixtures need not be applied because there are no chemical groups present in the molecule associated with explosive or selfreactive properties.

### **Pyrophoric liquids**

### Justification for data waiving

The study does not need to be conducted because the substance is known to be stable at room temperature for prolonged periods of time (days).

### **Pyrophoric solids**

### Justification for data waiving

Testing can be waived because substance is a liquid.

### self-heating substances and mixtures

### Justification for data waiving

not relevant

### Substances or mixtures which, in contact with water, emit flammable gases

### Justification for data waiving

not relevant

### **Oxidising liquids**

### Justification for data waiving

not relevant

### Oxidising solids

### Justification for data waiving

Testing can be waived because substance is a liquid.

### Organic peroxides

### Justification for data waiving

Classification procedure not required, because the substance or the mixture is by definition not an organic peroxide.

### Corrosive to metals

### Justification for data waiving

not relevant

### **Desensitised explosives**

### Justification for data waiving

No data available

### **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.



**MASTAZYME Cardiolipin controls** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

### 10.2 Chemical stability

No hazardous reaction when handled and stored according to provisions. Further information on storage conditions: see subsection 7.2.

### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4 Conditions to avoid

Further information on storage conditions: see subsection 7.2.

### 10.5 Incompatible materials

No further relevant information available.

### 10.6 Hazardous decomposition products

Does not decompose when used for intended uses. No known hazardous decomposition products.

### **SECTION 11: Toxicological information**

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicokinetics, metabolism and distribution

### Human toxicological data

No data available

### Non-human toxikological data

### remark

There are no data available on the preparation/mixture itself.

### **Acute toxicity**

### Acute dermal toxicity

ingredient sodium azide

Acute dermal toxicity 18 mg/kg

### **Effective dose**

LD50:

### Species:

Rabbit

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute dermal toxicity 2,8 mg/kg

### **Effective dose**

LD50:

### Species:

Rabbit

### Acute inhalation toxicity (dust/mist)

ingredient sodium azide

Acute inhalation toxicity (dust/mist) 5,4 mg/kg

### **Effective dose**

LC50:

Exposure time 4

### Species:

Rat

### Acute inhalation toxicity (vapour)

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute inhalation toxicity (vapour) 16,67 mg/L

Exposure time 4 d

### Acute oral toxicity

ingredient sodium azide

Acute oral toxicity 27 mg/kg



**MASTAZYME Cardiolipin controls** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

### Effective dose

LD50:

### Species:

Rat

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute oral toxicity 862 mg/kg

### **Effective dose**

LD50:

### Species:

Rat

### skin corrosion/irritation

### Assessment/classification

No data available

### Respiratory or skin sensitisation

### Sensitisation to the respiratory tract

### Assessment/classification

No data available

### Skin sensitisation

### Assessment/classification

No data available

### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

### Germ cell mutagenicity

### Human toxicological data

### Result

not relevant

### In vitro mutagenicity/genotoxicity

### **Genetic endpoint**

not relevant

### In vivo mutagenicity/genotoxicity

### Result / evaluation

not relevant

### Carcinogenicity

### Result / evaluation

No data available

### Reproductive toxicity

### Assessment/classification

No data available

### Adverse effects on sexual function and fertility

### Result / evaluation

No data available

### Adverse effects on developmental toxicity

### Result / evaluation

No data available

### Effects on or via lactation

### Result

No data available



**MASTAZYME Cardiolipin controls** 

Print date 11.10.2024 Revision date 05.01.2024 Version 1.0

STOT-single exposure

STOT SE 1 and 2

Dermal specific target organ toxicity (single exposure)

remark

No data available

Inhalative specific target organ toxicity (single exposure)

remark

No data available

Oral specific target organ toxicity (single exposure)

remark

No data available

STOT SE 3

Irritation to respiratory tract

Assessment/classification

No data available

**STOT-repeated exposure** 

STOT RE 1 and 2

Dermal specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Inhalative specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

**Oral specific target organ toxicity (repeated exposure)** 

Assessment/classification

No data available

Repeated dose toxicity (subacute, subchronic, chronic)

Subacute oral toxicity

remark

No data available

Subacute dermal toxicity

Specific effects:

No data available

Subacute inhalation toxicity

**Specific effects:** 

No data available

Subchronic dermal toxicity

Specific effects:

No data available

Subchronic inhalation toxicity

Specific effects:

No data available

Chronic oral toxicity

Specific effects:

No data available

**Chronic dermal toxicity** 



**MASTAZYME Cardiolipin controls** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

### Specific effects:

No data available

### **Chronic inhalation toxicity**

### Specific effects:

No data available

### 11.2 Information on other hazards

### **Endocrine disrupting properties**

### remark

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

### **Phototoxicity**

In vitro phototoxicity

evaluation

No data available

### In vivo phototoxicity

evaluation

No data available

### **SECTION 12: Ecological information**

12.1 Toxicity

**Aquatic toxicity** 

Acute (short-term) toxicity to crustacea

Result / evaluation

none

### Chronic (long-term) toxicity to aquatic invertebrate

remark

none

### Chronic (long-term) fish toxicity

Result / evaluation

none

### Acute (short-term) toxicity to algae and cyanobacteria

ingredient sodium azide

Acute (short-term) toxicity to algae and cyanobacteria 0,348 mg/L

Effective dose

EC50

Test duration 4 d

species

Alge/Wasserpflanze

### Chronic (long-term) toxicity to aquatic algae and cyanobacteria

evaluation parameter:

none

### Toxicity to other aquatic plants/organisms

Result / evaluation

none

### Toxicity to microorganisms

Result / evaluation



**MASTAZYME Cardiolipin controls** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

### **Terrestrial toxicity**

Effects on soil microorganisms

evaluation

none

Toxicity to soil macroorganisms except of arthropods

Acute earthworm toxicity

evaluation

none

**Chronical earthworm toxicity (reproduction)** 

evaluation

none

Toxicity to terrestrial arthropods

Insect toxicity

evaluation

none

Toxicity to terrestrial plants

Acute plant toxicity

evaluation

none

Chronic plant toxicity

evaluation

none

**Toxicity to birds** 

Acute and subchronic bird toxicity

evaluation

none

Bird reproduction toxicity

evaluation

none

Additional ecotoxicological information

**General information** 

none

12.2 Persistence and degradability

Assessment/classification

The substance meets the criteria of ready degradability as defined in Regulation (EC) No 1272/2008.

12.3 Bioaccumulative potential

Assessment/classification

not applicable

12.4 Mobility in soil

Assessment/classification

No data available

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

remark

No data available



**MASTAZYME Cardiolipin controls** 

Print date 11.10.2024 Revision date 05.01.2024 Version 1.0

### 12.7 Other adverse effects

No information available.

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

**Directive 2008/98/EC (Waste Framework Directive)** 

### Before intended use

Waste code product 180100

hazardous waste No

Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code product 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

### After intended use

Waste code packaging 180100

hazardous waste No

Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code packaging 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

### **SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	not applicable	not applicable	not applicable
14.2 Proper Shipping Name	not applicable	not applicable	not applicable
14.3 Class(es)	not applicable	not applicable	not applicable
14.4 Packing group	not applicable	not applicable	not applicable
14.5 Environmental hazards	not applicable	not applicable	not applicable
14.6 Special precautions for use	r not applicable	not applicable	not applicable
14.7 Maritime transport in bulk according to IMO instruments	not applicable	not applicable	not applicable

### Additional information

### All transport carriers

No dangerous good in sense of these transport regulations.

### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU legislation

Authorisations and/or restrictions on use

authorisations



Compiled in accordance with REACH Regulation (EC) No 1907/2006, as retained and amended in UK law
MASTAZYME Cardiolipin controls

Print date 11.10.2024 Revision date 05.01.2024 Version 1.0

### restrictions on use

none

### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

### **SECTION 16: Other information**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP] See SECTION 2.1 (classification).

### Indication of changes

not relevant

### **Additional information**

not relevant

### Relevant R-, H- and EUH-phrases (Number and full text)

none

### **Training advice**



# Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) MASTAZYME dsDNA controls

Print date 24.04.2025 Revision date 24.04.2025

Version 2.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name/designation MASTAZYME dsDNA controls

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

### Relevant identified uses

### remark

The product is intended for professional use.

### Sector of uses [SU]

SU20 Health services

### 1.3 Details of the supplier of the safety data sheet

### Manufacturer

Mast Diagnostica GmbH

Feldstraße 20

Deutschland-23858 Reinfeld Telephone: +49 4533 20 07 00 Telefax: +49 4533 2007 68

E-mail: mast@mast-diagnostica.de

www.mast-group.com

### 1.4 Emergency telephone number

Only available during office hours.

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

### health hazards

Skin Sens. 1

### hazard statements for health hazards

H317 May cause an allergic skin reaction.

### **Physical hazards**

### hazard statements for physical hazards

none

### **Environmental hazards**

none

### **Additional hazards**

none

### Specific concentration limit (SCL)

Hazard classes and hazard categories

none

### 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms



GHS07 **Signal word** Warning



# Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) MASTAZYME dsDNA controls

Print date 24.04.2025 Revision date 24.04.2025

Version 2.0

### **Hazard statements**

Hazard statements for physical hazards

none

hazard statements for health hazards

none

Hazard statements for environmental hazards

none

Hazard statements for additional hazards

none

### **Precautionary statements**

### General:

none

### Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves.

### Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

### Storage:

none

### Disposal:

P501 Dispose of contents/container to an appropriate recycling or disposal facility.

### Supplemental hazard information

### Physical properties

none

### health hazard properties

none

### **Environmental properties**

none

### Other labelling

### Standard phrases for special risks for humans or the environment

none

### Labelling for contents according to regulation (EC) No. 648/2004

none

### Standard phrases for safety precautions for the protection of humans or the environment

### **General provisions**

none

### Safety precautions for operators (SPo)

none

### Safety precautions related to the environment (SPe)

none

### Safety precautions related to good agricultural practice (SPa)

none

### Specific safety precautions for rodenticides (SPr)



Print date 24.04.2025 Revision date 24.04.2025

Version 2.0

#### Standard phrases for special risks for humans or the environment

### Special risks related to humans (RSh):

none

# Special risks related to the environment (RSe):

none

#### 2.3 Other hazards

#### Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

# Adverse human health effects and symptoms

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

#### Adverse physicochemical effects

none

#### Other adverse effects

none

#### Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

# **SECTION 3: Composition / information on ingredients**

#### 3.1/3.2 Substances/Mixtures

#### **Hazardous ingredients**

2-methylisothiazol-3(2H)-one

<0,1 %

CAS 2682-20-4 EC 220-239-6

INDEX 613-326-00-9

Acute Tox. 2, H330 / Acute Tox. 3, H311 / Acute Tox. 3, H301 / Skin Corr. 1B, H314 / Eye Dam. 1, H318 / Skin Sens. 1A, H317 / Aquatic

Acute 1, H400 / Aquatic Chronic 1, H410

# **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

#### **General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### Following skin contact

Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleansing agent and water. In case of skin irritation, consult a physician.

# After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

# Following ingestion

Rinse mouth thoroughly with water.

#### Self-protection of the first aider

none

# 4.2 Most important symptoms and effects, both acute and delayed

#### **Effects**

none

# **Symptoms**

Allergic reactions



Print date 24.04.2025 Revision date 24.04.2025

Version 2.0

# 4.3 Indication of any immediate medical attention and special treatment needed

#### Notes for the doctor

Treat symptomatically. Kann bei empfindlichen Personen eine Sensibilisierung hervorrufen.

# **Special treatment**

none

#### **SECTION 5: Firefighting measures**

#### **Additional information**

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

# 5.1 Extinguishing media

#### Suitable extinguishing media

Water

Sand

Carbon dioxide (CO2)

Extinguishing powder

# Unsuitable extinguishing media

Full water jet

# 5.2 Special hazards arising from the substance or mixture

#### **Hazardous combustion products**

none

# 5.3 Advice for firefighters

# Special protective equipment for firefighters

No special equipment or techniques are required.

#### **SECTION 6: Accidental release measures**

#### **Additional information**

Absorb and remove liquid with absorbent material. Clean the affected surface with standard cleaning agents.

#### 6.1 Personal precautions, protective equipment and emergency procedures

# For non-emergency personnel

# **Personal precautions**

Use personal protection equipment.

#### **Protective equipment**

none

#### For emergency responders

#### Personal protection equipment

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

# 6.2 Environmental precautions

see chapter 12 for additional information

### 6.3 Methods and material for containment and cleaning up

#### For containment

# Suitable material for taking up

Commercially available materials are sufficient.

#### For cleaning up

# Suitable material for diluting or neutralizing

Water

#### 6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13



Print date 24.04.2025 Revision date 24.04.2025

Version 2.0

#### **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

# Advices on general occupational hygiene

Provide eye shower and label its location conspicuously

#### **Protective measures**

#### Advices on safe handling

No special technical protective measures are necessary.

# Measures to prevent fire

No special fire protection measures are necessary.

# **Environmental precautions**

No special technical protective measures are necessary.

# 7.2 Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

Storage conditions are listed on the labels. Additional information concerning the storage are given in the instructions for use.

# Hints on joint storage

#### Materials to avoid

none

# Further information on storage conditions

Protect against:

UV-radiation/sunlight

Temperatures outside the listed range.

# storage temperature

**Value** >=2 - <=8 °C

#### 7.3 Specific end use(s)

# Recommendation

Observe instructions for use.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### Exposure limits at intended use

# biological limit values

# remark

No data available

#### 8.2 Exposure controls

# Appropriate engineering controls

# remark

See section 7. No additional measures necessary.

# Personal protection equipment

# Eye/face protection

# Suitable eye protection

Eye glasses

Eye glasses with side protection

# Skin protection

# Suitable gloves type

Disposable gloves



Print date 24.04.2025 Revision date 24.04.2025

Version 2.0

#### Suitable material

NBR (Nitrile rubber)

# **Body protection**

# Suitable protective clothing

lab coat

# **Respiratory protection**

none

# **Environmental exposure controls**

remark

See section 7. No additional measures necessary.

# **Consumer exposure controls**

Measures related to consumer uses of the substance (as such or in preparations).

not relevant

# Measures related to the service life of the substance in articles

not relevant

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

**Appearance** 

# **Physical state**

liquid

#### Colour

yellow

# Odour

odourless

#### **Odour threshold**

not relevant

	parameter	Method - source - remark
Melting point/freezing point		No data available
Boiling point or initial boiling point and boiling range		No data available
flammability		not relevant
Upper explosion limit		not relevant
lower explosion limit		not relevant
Flash point (°C)		not relevant
Auto-ignition temperature		not relevant
Decomposition temperature		not relevant
pH		No data available
Kinematic viscosity		No data available
Water solubility		No data available
Soluble (g/L) in		not relevant
Fat solubility		No data available



Print date 24.04.2025 Revision date 24.04.2025

Version 2.0

	parameter Method - source - remark
Partition coefficient: n-octanol/water	No data available
Vapour pressure	No data available
Density and/or relative density	No data available
Relative vapour density	No data available
particle characteristics	not relevant
Dynamic viscosity	No data available
flow time	No data available
Thermal sensitivity	A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation), heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk explosion).
Sensitiveness to impact (J)	A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation) and/ or absence of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk explosion).
Sensitivity to friction (N)	A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk explosion).
Oxidising liquids	No data available
Oxidising solids	not relevant
Oxidising gas	not relevant



Print date 24.04.2025 Revision date 24.04.2025

Version 2.0

#### 9.2 Other information

### Physical hazards

#### **Explosives**

# Justification for data waiving

The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.

# Flammable gases

# Justification for data waiving

not relevant

#### **Aerosols**

#### Justification for data waiving

Testing can be waived because substance is not an aerosol.

# Oxidising gas

#### Justification for data waiving

Testing can be waived because substance is a liquid.

#### Gases under pressure

# Justification for data waiving

Testing can be waived because substance is a liquid.

## flammable liquids

#### Justification for data waiving

not relevant

#### Flammable solids

#### Justification for data waiving

Testing can be waived because substance is a liquid.

# Self-reactive substances and mixtures

#### Justification for data waiving

The classification procedures for self-reactive substances and mixtures need not be applied because there are no chemical groups present in the molecule associated with explosive or selfreactive properties.

#### Pyrophoric liquids

# Justification for data waiving

The study does not need to be conducted because the substance is known to be stable at room temperature for prolonged periods of time (days).

#### Pyrophoric solids

# Justification for data waiving

Testing can be waived because substance is a liquid.

#### self-heating substances and mixtures

#### Justification for data waiving

not relevant

# Substances or mixtures which, in contact with water, emit flammable gases

#### Justification for data waiving

not relevant

#### **Oxidising liquids**

# Justification for data waiving

not relevant

# **Oxidising solids**

#### Justification for data waiving

Testing can be waived because substance is a liquid.



Print date 24.04.2025 Revision date 24.04.2025

Version 2.0

#### Organic peroxides

# Justification for data waiving

Classification procedure not required, because the substance or the mixture is by definition not an organic peroxide.

#### **Corrosive to metals**

# Justification for data waiving

not relevant

#### **Desensitised explosives**

#### Justification for data waiving

No data available

#### **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

# 10.2 Chemical stability

No hazardous reaction when handled and stored according to provisions. Further information on storage conditions: see subsection 7.2.

#### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

## 10.4 Conditions to avoid

Further information on storage conditions: see subsection 7.2.

# 10.5 Incompatible materials

No further relevant information available.

#### 10.6 Hazardous decomposition products

Does not decompose when used for intended uses. No known hazardous decomposition products.

# **SECTION 11: Toxicological information**

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Toxicokinetics, metabolism and distribution

#### **Human toxicological data**

No data available

#### Non-human toxikological data

#### remark

There are no data available on the preparation/mixture itself.

# **Acute toxicity**

# Acute dermal toxicity

ingredient 2-methylisothiazol-3(2H)-one

Acute dermal toxicity 200 mg/kg

**Effective dose** 

LD50:

# Species:

Rabbit

#### Acute inhalation toxicity (vapour)

ingredient 2-methylisothiazol-3(2H)-one

Acute inhalation toxicity (vapour) 0,11 mg/L

**Effective dose** 

LC50:

Exposure time 4 h

#### Acute oral toxicity

ingredient 2-methylisothiazol-3(2H)-one



Print date 24.04.2025 Revision date 24.04.2025

Version 2.0

Acute oral toxicity 120 mg/kg

**Effective dose** 

LD50:

Species:

Rat

skin corrosion/irritation

Assessment/classification

No data available

Respiratory or skin sensitisation

Sensitisation to the respiratory tract

Assessment/classification

No data available

Skin sensitisation

Assessment/classification

No data available

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity

Human toxicological data

Result

not relevant

In vitro mutagenicity/genotoxicity

Genetic endpoint

not relevant

In vivo mutagenicity/genotoxicity

Result / evaluation

not relevant

Carcinogenicity

Result / evaluation

No data available

Reproductive toxicity

Assessment/classification

No data available

Adverse effects on sexual function and fertility

Result / evaluation

No data available

Adverse effects on developmental toxicity

Result / evaluation

No data available

Effects on or via lactation

Result

No data available

STOT-single exposure

STOT SE 1 and 2

Dermal specific target organ toxicity (single exposure)

remark

No data available

Inhalative specific target organ toxicity (single exposure)



Print date 24.04.2025 Revision date 24.04.2025

Version 2.0

#### remark

No data available

#### Oral specific target organ toxicity (single exposure)

#### remark

No data available

#### STOT SE 3

# Irritation to respiratory tract

#### Assessment/classification

No data available

# STOT-repeated exposure

STOT RE 1 and 2

# Dermal specific target organ toxicity (repeated exposure)

#### Assessment/classification

No data available

# Inhalative specific target organ toxicity (repeated exposure)

#### Assessment/classification

No data available

# Oral specific target organ toxicity (repeated exposure)

#### Assessment/classification

No data available

# Repeated dose toxicity (subacute, subchronic, chronic)

# Subacute oral toxicity

#### remark

No data available

# Subacute dermal toxicity

#### Specific effects:

No data available

# Subacute inhalation toxicity

#### **Specific effects:**

No data available

# Subchronic dermal toxicity

# Specific effects:

No data available

# Subchronic inhalation toxicity

# Specific effects:

No data available

#### Chronic oral toxicity

# **Specific effects:**

No data available

#### Chronic dermal toxicity

#### **Specific effects:**

No data available

#### **Chronic inhalation toxicity**

#### Specific effects:

No data available



Print date 24.04.2025 Revision date 24.04.2025

Version 2.0

#### 11.2 Information on other hazards

### **Endocrine disrupting properties**

#### remark

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

# **Phototoxicity**

In vitro phototoxicity

evaluation

No data available

In vivo phototoxicity

evaluation

No data available

# **SECTION 12: Ecological information**

12.1 Toxicity

**Aquatic toxicity** 

Acute (short-term) fish toxicity

Result / evaluation

none

# Acute (short-term) toxicity to crustacea

Result / evaluation

none

# Chronic (long-term) toxicity to aquatic invertebrate

Result / evaluation

keine/keiner

#### Chronic (long-term) fish toxicity

Result / evaluation

none

# Acute (short-term) toxicity to algae and cyanobacteria

Result / evaluation

none

# Toxicity to other aquatic plants/organisms

Result / evaluation

none

# Toxicity to microorganisms

Result / evaluation

none

#### **Terrestrial toxicity**

Effects on soil microorganisms

evaluation

none

#### Toxicity to soil macroorganisms except of arthropods

# Acute earthworm toxicity

evaluation

none

#### **Chronical earthworm toxicity (reproduction)**



Print date 24.04.2025 Revision date 24.04.2025

Version 2.0

#### evaluation

none

#### Toxicity to terrestrial arthropods

Insect toxicity

evaluation

none

#### Toxicity to terrestrial plants

Acute plant toxicity

evaluation

none

#### Chronic plant toxicity

evaluation

none

#### **Toxicity to birds**

# Acute and subchronic bird toxicity

evaluation

none

# Bird reproduction toxicity

evaluation

none

# Additional ecotoxicological information

#### **General information**

none

# 12.2 Persistence and degradability

#### Assessment/classification

The substance meets the criteria of ready degradability as defined in Regulation (EC) No 1272/2008.

#### 12.3 Bioaccumulative potential

#### Assessment/classification

not applicable

#### 12.4 Mobility in soil

#### Assessment/classification

No data available

# 12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

# 12.6 Endocrine disrupting properties

remark

No data available

#### 12.7 Other adverse effects

No information available.

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

**Directive 2008/98/EC (Waste Framework Directive)** 

#### Before intended use

Waste code product 180100

hazardous waste No



Print date 24.04.2025 Revision date 24.04.2025

Version 2.0

#### Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code product 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

#### After intended use

Waste code packaging 180100

hazardous waste No

Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code packaging 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

## **SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	not applicable	not applicable	not applicable
14.2 Proper Shipping Name	not applicable	not applicable	not applicable
14.3 Class(es)	not applicable	not applicable	not applicable
14.4 Packing group	not applicable	not applicable	not applicable
14.5 Environmental hazards	not applicable	not applicable	not applicable
14.6 Special precautions for use	r not applicable	not applicable	not applicable
14.7 Maritime transport in bulk according to IMO instruments	not applicable	not applicable	not applicable

#### **Additional information**

#### All transport carriers

No dangerous good in sense of these transport regulations.

# **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU legislation

#### Authorisations and/or restrictions on use

#### authorisations

none

#### restrictions on use

none

#### 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP] See SECTION 2.1 (classification).

# Indication of changes

not relevant



Print date 24.04.2025 Revision date 24.04.2025

Version 2.0

# **Additional information**

not relevant

Relevant R-, H- and EUH-phrases (Number and full text)

none

Training advice



Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name/designation MASTAZYME AI Diluent

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

#### Relevant identified uses

#### remark

The product is intended for professional use.

# Sector of uses [SU]

SU20 Health services

# 1.3 Details of the supplier of the safety data sheet

#### Manufacturer

Mast Diagnostica GmbH

Feldstraße 20

Deutschland-23858 Reinfeld Telephone: +49 4533 20 07 00 Telefax: +49 4533 2007 68

E-mail: mast@mast-diagnostica.de

www.mast-group.com

# 1.4 Emergency telephone number

Only available during office hours.

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### **Additional information**

The mixture is not classified as hazardous according to Regulation (EC) No 1272/2008 [CLP].

# Classification according to Regulation (EC) No 1272/2008 [CLP]

#### health hazards

hazard statements for health hazards

none

# Physical hazards

hazard statements for physical hazards

none

#### **Environmental hazards**

none

#### Additional hazards

none

#### Specific concentration limit (SCL)

Hazard classes and hazard categories

none

#### 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

#### Signal word

none

#### **Hazard statements**

Hazard statements for physical hazards

none

## hazard statements for health hazards



Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

Hazard statements for environmental hazards

none

Hazard statements for additional hazards

none

**Precautionary statements** 

General:

none

Prevention

none

Response:

none

Storage:

none

Disposal:

none

Supplemental hazard information

Physical properties

none

health hazard properties

none

**Environmental properties** 

none

Other labelling

Standard phrases for special risks for humans or the environment

none

Labelling for contents according to regulation (EC) No. 648/2004

none

Standard phrases for safety precautions for the protection of humans or the environment

General provisions

none

Safety precautions for operators (SPo)

none

Safety precautions related to the environment (SPe)

none

Safety precautions related to good agricultural practice (SPa)

none

Specific safety precautions for rodenticides (SPr)

none

Standard phrases for special risks for humans or the environment

Special risks related to humans (RSh):

none

Special risks related to the environment (RSe):

none

#### 2.3 Other hazards

#### Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.



Print date 11.10.2024
Revision date 05.01.2024
Version 1.0

# Adverse human health effects and symptoms

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

#### Adverse physicochemical effects

none

#### Other adverse effects

none

#### Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

# **SECTION 3: Composition / information on ingredients**

#### 3.1/3.2 Substances/Mixtures

# Hazardous ingredients

sodium azide

CAS 26628-22-8

EC 247-852-1

INDEX 011-004-00-7

Acute Tox. 2, H300 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-

>=0,03 - <=0,05 %

0 - <= 0.09 %

isothiazol-3-one (3:1) CAS 55965-84-9

INDEX 613-167-00-5

Acute Tox. 2, H330 / Acute Tox. 2, H310 / Acute Tox. 3, H301 / Skin

Corr. 1C, H314 / Eye Dam. 1, H318 / Skin Sens. 1A, H317 / Aquatic

Acute 1, H400 / Aquatic Chronic 1, H410

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

# **General information**

No special First Aid measures are required.

#### Following skin contact

Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleansing agent and water.

# After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water.

#### Following ingestion

Rinse mouth thoroughly with water.

#### Self-protection of the first aider

none

# 4.2 Most important symptoms and effects, both acute and delayed

#### **Effects**

none

#### **Symptoms**

none

#### 4.3 Indication of any immediate medical attention and special treatment needed

## Notes for the doctor

none

#### Special treatment



Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

#### **SECTION 5: Firefighting measures**

#### **Additional information**

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

# 5.1 Extinguishing media

#### Suitable extinguishing media

Water

Sand

Carbon dioxide (CO2)

Extinguishing powder

#### Unsuitable extinguishing media

none

# 5.2 Special hazards arising from the substance or mixture

#### **Hazardous combustion products**

none

# 5.3 Advice for firefighters

# Special protective equipment for firefighters

No special equipment or techniques are required.

#### **SECTION 6: Accidental release measures**

#### **Additional information**

Absorb and remove liquid with absorbent material. Clean the affected surface with standard cleaning agents.

# 6.1 Personal precautions, protective equipment and emergency procedures

# For non-emergency personnel

#### Personal precautions

none

# **Protective equipment**

none

#### For emergency responders

#### Personal protection equipment

none

#### 6.2 Environmental precautions

none

# 6.3 Methods and material for containment and cleaning up

#### For containment

#### Suitable material for taking up

Commercially available materials are sufficient.

# For cleaning up

# Suitable material for diluting or neutralizing

Water

# 6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

#### Advices on general occupational hygiene

Provide eye shower and label its location conspicuously



Print date 11.10.2024 Revision date 05.01.2024 Version 1.0

#### **Protective measures**

# Advices on safe handling

No special technical protective measures are necessary.

# Measures to prevent fire

No special fire protection measures are necessary.

### **Environmental precautions**

No special technical protective measures are necessary.

# 7.2 Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

Storage conditions are listed on the labels. Additional information concerning the storage are given in the instructions for use.

# Hints on joint storage

#### Materials to avoid

none

# Further information on storage conditions

Protect against:

UV-radiation/sunlight

Temperatures outside the listed range.

# storage temperature

Value >=2 - <=8 °C

# 7.3 Specific end use(s)

# Recommendation

Observe instructions for use.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### Occupational exposure limit values

CAS No.	Substance name	LTV	STV	remark
26628-22-8	Sodium azide	0,1 mg/m³	0,3 (1) mg/m³	(1) 15 minutes average value Bold-type: Indicative Occupational Exposure Limit Value (IOELV) ~

European Union

LTV = long-term occupational exposure limit value STV = short-term occupational exposure limit value

source: GESTIS International Limit Values (http://limitvalue.ifa.dguv.de/)

Monitoring and observation processes: GESTIS Analytical Methods (http://amcaw.ifa.dguv.de/)

#### Exposure limits at intended use

#### biological limit values

remark

No data available

#### **DNEL-/PNEC-values**

#### **DNEL Consumer**

Substance name sodium azide

type

systemic



Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

source

TRGS900

Value 0,493 mg/m<sup>3</sup>

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

type

local

source

Deutschland. MAK- und BAT Anhang IIa

Value 0,02 mg/m<sup>3</sup>

**PNEC** 

Value 0,35 µg/L

**PNEC** type

aquatic, freshwater

Value 0,015 µg/L

**PNEC** type

aquatic, marine water

Value 0,0167 mg/kg

**PNEC type** 

sediment, freshwater

Value 30 µg/L

**PNEC type** 

sewage treatment plant

#### 8.2 Exposure controls

# Appropriate engineering controls

remark

See section 7. No additional measures necessary.

Personal protection equipment

Eye/face protection

Suitable eye protection

Eye glasses

Eye glasses with side protection

Skin protection

Suitable gloves type

Disposable gloves

Suitable material

NBR (Nitrile rubber)

**Body protection** 

Suitable protective clothing

lab coat

**Respiratory protection** 

none

**Environmental exposure controls** 

remark

See section 7. No additional measures necessary.

**Consumer exposure controls** 

Measures related to consumer uses of the substance (as such or in preparations).

not relevant



Print date 11.10.2024 Revision date 05.01.2024 Version 1.0

Measures related to the service life of the substance in articles not relevant

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

# **Appearance**

**Physical state** 

liquid

Colour

green

Odour

odourless

#### **Odour threshold**

not relevant

Melting point/freezing pointNo data availableBoiling point or initial boiling pointNo data availableflammabilitynot relevantUpper explosion limitnot relevantlower explosion limitnot relevantFlash point (°C)not relevantAuto-ignition temperaturenot relevantDecomposition temperaturenot relevantpHNo data availableKinematic viscosityNo data availableWater solubilityNo data availableSoluble (g/L) innot relevantFat solubilityNo data availablePartition coefficient: n-octanol/waterNo data availableVapour pressureNo data availableDensity and/or relative densityNo data availableRelative vapour densityNo data availableparticle characteristicsnot relevantDynamic viscosityNo data availableflow timeNo data available		parameter	Method - source - remark
flammability not relevant Upper explosion limit not relevant lower explosion limit not relevant lower explosion limit not relevant Flash point (°C) not relevant Auto-ignition temperature not relevant Decomposition temperature not relevant  PH No data available Kinematic viscosity No data available Water solubility No data available Soluble (g/L) in not relevant Fat solubility No data available Partition coefficient: n-octanol/water No data available Partition relevant Vapour pressure No data available Density and/or relative density No data available Relative vapour density No data available particle characteristics not relevant No data available No data available Relative vapour density No data available particle characteristics not relevant	Melting point/freezing point		No data available
Upper explosion limit not relevant No data available Partition coefficient: n-octanol/water No data available No data available No data available Partition coefficient: n-octanol/water No data available No data available No data available Partition coefficient: n-octanol/water No data available No data available No data available No data available Relative vapour density No data available not relevant No data available particle characteristics No data available No data available No data available particle characteristics No data available No	Boiling point or initial boiling point and boiling range		No data available
lower explosion limit Flash point (°C) not relevant Auto-ignition temperature not relevant Decomposition temperature not relevant pH No data available Kinematic viscosity No data available Water solubility Soluble (g/L) in Fat solubility No data available Partition coefficient: n-octanol/water Vapour pressure Density and/or relative density Relative vapour density No data available Relative vapour density Dynamic viscosity No data available	flammability		not relevant
Flash point (°C) Auto-ignition temperature Decomposition temperature pH No data available Kinematic viscosity No data available Water solubility Soluble (g/L) in Fat solubility No data available Partition coefficient: n-octanol/water Vapour pressure No data available Density and/or relative density Relative vapour density No data available particle characteristics No data available	Upper explosion limit		not relevant
Auto-ignition temperature Decomposition temperature not relevant  pH No data available Kinematic viscosity No data available Water solubility No data available Soluble (g/L) in not relevant Fat solubility No data available Partition coefficient: n-octanol/water No data available Vapour pressure No data available Density and/or relative density Relative vapour density No data available particle characteristics not relevant No data available	lower explosion limit		not relevant
Decomposition temperature  pH  No data available  Kinematic viscosity  No data available  Water solubility  No data available  Soluble (g/L) in  Fat solubility  No data available  Partition coefficient: n-octanol/water  Vapour pressure  No data available  Density and/or relative density  Relative vapour density  No data available  particle characteristics  not relevant  No data available	Flash point (°C)		not relevant
pH Kinematic viscosity No data available Water solubility No data available Soluble (g/L) in not relevant Fat solubility No data available Partition coefficient: n-octanol/water No data available Vapour pressure No data available Density and/or relative density Relative vapour density No data available particle characteristics No data available	Auto-ignition temperature		not relevant
Kinematic viscosity  Water solubility  Soluble (g/L) in  Fat solubility  Partition coefficient: n-octanol/water  Vapour pressure  Density and/or relative density  Relative vapour density  Dynamic viscosity  No data available	Decomposition temperature		not relevant
Water solubility  Soluble (g/L) in  Fat solubility  No data available  Partition coefficient: n-octanol/water  Vapour pressure  Density and/or relative density  Relative vapour density  particle characteristics  Dynamic viscosity  No data available  No data available  No data available  not relevant  No data available  No data available  No data available  No data available	рН		No data available
Soluble (g/L) in not relevant  Fat solubility No data available  Partition coefficient: n-octanol/water No data available  Vapour pressure No data available  Density and/or relative density No data available  Relative vapour density No data available  particle characteristics No data available  particle characteristics No data available  No data available  No data available  No data available	Kinematic viscosity		No data available
Fat solubility  Partition coefficient: n-octanol/water  Vapour pressure  Density and/or relative density  Relative vapour density  No data available  not relevant  Dynamic viscosity  No data available	Water solubility		No data available
Partition coefficient: n-octanol/water  Vapour pressure  No data available  particle characteristics  not relevant  Dynamic viscosity  No data available	Soluble (g/L) in		not relevant
Vapour pressure  Density and/or relative density  Relative vapour density  particle characteristics  Dynamic viscosity  No data available  not relevant  No data available  No data available	Fat solubility		No data available
Density and/or relative density  Relative vapour density  No data available  No data available  particle characteristics  not relevant  Dynamic viscosity  No data available	Partition coefficient: n-octanol/water		No data available
Relative vapour density  particle characteristics  Dynamic viscosity  No data available  not relevant  No data available	Vapour pressure		No data available
particle characteristics not relevant  Dynamic viscosity No data available	Density and/or relative density		No data available
Dynamic viscosity  No data available	Relative vapour density		No data available
	particle characteristics		not relevant
flow time No data available	Dynamic viscosity		No data available
	flow time		No data available



Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

parameter Method - source - remark

Thermal sensitivity

A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).

Sensitiveness to impact (J)

A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).

Sensitivity to friction (N)

A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).

not relevant

Oxidising liquids No data available

Oxidising solids not relevant

# 9.2 Other information

# **Physical hazards**

Oxidising gas

# **Explosives**

#### Justification for data waiving

The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.

# Flammable gases

# Justification for data waiving

not relevant

#### **Aerosols**

#### Justification for data waiving

Testing can be waived because substance is not an aerosol.



Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

#### Oxidising gas

#### Justification for data waiving

Testing can be waived because substance is a liquid.

#### Gases under pressure

# Justification for data waiving

Testing can be waived because substance is a liquid.

#### flammable liquids

# Justification for data waiving

not relevant

#### Flammable solids

# Justification for data waiving

Testing can be waived because substance is a liquid.

#### Self-reactive substances and mixtures

# Justification for data waiving

The classification procedures for self-reactive substances and mixtures need not be applied because there are no chemical groups present in the molecule associated with explosive or selfreactive properties.

# **Pyrophoric liquids**

## Justification for data waiving

The study does not need to be conducted because the substance is known to be stable at room temperature for prolonged periods of time (days).

# **Pyrophoric solids**

#### Justification for data waiving

Testing can be waived because substance is a liquid.

#### self-heating substances and mixtures

# Justification for data waiving

not relevant

# Substances or mixtures which, in contact with water, emit flammable gases

#### Justification for data waiving

not relevant

#### Oxidising liquids

#### Justification for data waiving

not relevant

#### Oxidising solids

#### Justification for data waiving

Testing can be waived because substance is a liquid.

#### Organic peroxides

#### Justification for data waiving

Classification procedure not required, because the substance or the mixture is by definition not an organic peroxide.

#### Corrosive to metals

# Justification for data waiving

not relevant

#### **Desensitised explosives**

#### Justification for data waiving

No data available

#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.



Print date 11.10.2024 Revision date 05.01.2024 Version 1.0

## 10.2 Chemical stability

No hazardous reaction when handled and stored according to provisions. Further information on storage conditions: see subsection 7.2.

# 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

#### 10.4 Conditions to avoid

Further information on storage conditions: see subsection 7.2.

#### 10.5 Incompatible materials

No further relevant information available.

# 10.6 Hazardous decomposition products

Does not decompose when used for intended uses. No known hazardous decomposition products.

#### **SECTION 11: Toxicological information**

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicokinetics, metabolism and distribution

# Human toxicological data

No data available

# Non-human toxikological data

#### remark

There are no data available on the preparation/mixture itself.

# **Acute toxicity**

#### Acute dermal toxicity

ingredient sodium azide

Acute dermal toxicity 18 mg/kg

#### **Effective dose**

LD50:

# Species:

Rabbit

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute dermal toxicity 2,8 mg/kg

#### **Effective dose**

LD50:

#### Species:

Rabbit

# Acute inhalation toxicity (dust/mist)

ingredient sodium azide

Acute inhalation toxicity (dust/mist) 5,4 mg/kg

#### **Effective dose**

LC50:

Exposure time 4

# Species:

Rat

#### Acute inhalation toxicity (vapour)

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute inhalation toxicity (vapour) 16,67 mg/L

Exposure time 4 d

# Acute oral toxicity

ingredient sodium azide

Acute oral toxicity 27 mg/kg



Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

Effective dose

LD50:

Species:

Rat

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute oral toxicity 862 mg/kg

**Effective dose** 

LD50:

Species:

Rat

skin corrosion/irritation

Assessment/classification

No data available

Respiratory or skin sensitisation

Sensitisation to the respiratory tract

Assessment/classification

No data available

Skin sensitisation

Assessment/classification

No data available

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity

Human toxicological data

Result

not relevant

In vitro mutagenicity/genotoxicity

Genetic endpoint

not relevant

In vivo mutagenicity/genotoxicity

Result / evaluation

not relevant

Carcinogenicity

Result / evaluation

No data available

Reproductive toxicity

Assessment/classification

No data available

Adverse effects on sexual function and fertility

Result / evaluation

No data available

Adverse effects on developmental toxicity

Result / evaluation

No data available

Effects on or via lactation

Result

No data available



Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

STOT-single exposure

STOT SE 1 and 2

Dermal specific target organ toxicity (single exposure)

remark

No data available

Inhalative specific target organ toxicity (single exposure)

remark

No data available

Oral specific target organ toxicity (single exposure)

remark

No data available

STOT SE 3

Irritation to respiratory tract

Assessment/classification

No data available

**STOT-repeated exposure** 

STOT RE 1 and 2

Dermal specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Inhalative specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

**Oral specific target organ toxicity (repeated exposure)** 

Assessment/classification

No data available

Repeated dose toxicity (subacute, subchronic, chronic)

Subacute oral toxicity

remark

No data available

Subacute dermal toxicity

Specific effects:

No data available

Subacute inhalation toxicity

**Specific effects:** 

No data available

Subchronic dermal toxicity

Specific effects:

No data available

Subchronic inhalation toxicity

Specific effects:

No data available

Chronic oral toxicity

Specific effects:

No data available

**Chronic dermal toxicity** 



Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

## Specific effects:

No data available

# **Chronic inhalation toxicity**

# Specific effects:

No data available

#### 11.2 Information on other hazards

# **Endocrine disrupting properties**

#### remark

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

#### **Phototoxicity**

# In vitro phototoxicity

#### evaluation

No data available

#### In vivo phototoxicity

#### evaluation

No data available

# **SECTION 12: Ecological information**

# 12.1 Toxicity

**Aquatic toxicity** 

# Acute (short-term) toxicity to crustacea

# Result / evaluation

none

# Chronic (long-term) toxicity to aquatic invertebrate

#### remark

none

# Chronic (long-term) fish toxicity

#### Result / evaluation

none

# Acute (short-term) toxicity to algae and cyanobacteria

ingredient sodium azide

Acute (short-term) toxicity to algae and cyanobacteria 0,348 mg/L

#### Effective dose

EC50

Test duration 4 d

#### species

Alge/Wasserpflanze

#### Chronic (long-term) toxicity to aquatic algae and cyanobacteria

#### evaluation parameter:

none

#### Toxicity to other aquatic plants/organisms

#### Result / evaluation

none

# **Toxicity to microorganisms**

#### Result / evaluation



Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

## **Terrestrial toxicity**

Effects on soil microorganisms

evaluation

none

Toxicity to soil macroorganisms except of arthropods

Acute earthworm toxicity

evaluation

none

**Chronical earthworm toxicity (reproduction)** 

evaluation

none

Toxicity to terrestrial arthropods

Insect toxicity

evaluation

none

Toxicity to terrestrial plants

Acute plant toxicity

evaluation

none

Chronic plant toxicity

evaluation

none

**Toxicity to birds** 

Acute and subchronic bird toxicity

evaluation

none

Bird reproduction toxicity

evaluation

none

Additional ecotoxicological information

**General information** 

none

12.2 Persistence and degradability

Assessment/classification

The substance meets the criteria of ready degradability as defined in Regulation (EC) No 1272/2008.

12.3 Bioaccumulative potential

Assessment/classification

not applicable

12.4 Mobility in soil

Assessment/classification

No data available

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

remark

No data available



Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

#### 12.7 Other adverse effects

No information available.

#### **SECTION 13: Disposal considerations**

# 13.1 Waste treatment methods

**Directive 2008/98/EC (Waste Framework Directive)** 

#### Before intended use

Waste code product 180100

hazardous waste No

Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code product 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

#### After intended use

Waste code packaging 180100

hazardous waste No

Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code packaging 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

#### **SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	not applicable	not applicable	not applicable
14.2 Proper Shipping Name	not applicable	not applicable	not applicable
14.3 Class(es)	not applicable	not applicable	not applicable
14.4 Packing group	not applicable	not applicable	not applicable
14.5 Environmental hazards	not applicable	not applicable	not applicable
14.6 Special precautions for use	er not applicable	not applicable	not applicable
14.7 Maritime transport in bulk according to IMO instruments	not applicable	not applicable	not applicable

# Additional information

#### All transport carriers

No dangerous good in sense of these transport regulations.

# **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU legislation

Authorisations and/or restrictions on use

authorisations



Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

#### restrictions on use

none

# 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

# **SECTION 16: Other information**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP] See SECTION 2.1 (classification).

# Indication of changes

not relevant

# **Additional information**

not relevant

# Relevant R-, H- and EUH-phrases (Number and full text)

none

# **Training advice**



**MASTAZYME Cardiolipin Diluent** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name/designation MASTAZYME Cardiolipin Diluent

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

#### Relevant identified uses

#### remark

The product is intended for professional use.

# Sector of uses [SU]

SU20 Health services

# 1.3 Details of the supplier of the safety data sheet

#### Manufacturer

Mast Diagnostica GmbH

Feldstraße 20

Deutschland-23858 Reinfeld Telephone: +49 4533 20 07 00 Telefax: +49 4533 2007 68

E-mail: mast@mast-diagnostica.de

www.mast-group.com

# 1.4 Emergency telephone number

Only available during office hours.

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### **Additional information**

The mixture is not classified as hazardous according to Regulation (EC) No 1272/2008 [CLP].

# Classification according to Regulation (EC) No 1272/2008 [CLP]

#### health hazards

hazard statements for health hazards

none

# Physical hazards

hazard statements for physical hazards

none

#### **Environmental hazards**

none

# Additional hazards

none

#### Specific concentration limit (SCL)

Hazard classes and hazard categories

none

#### 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

#### Signal word

none

#### **Hazard statements**

Hazard statements for physical hazards

none

## hazard statements for health hazards



**MASTAZYME Cardiolipin Diluent** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

Hazard statements for environmental hazards

none

Hazard statements for additional hazards

none

**Precautionary statements** 

General:

none

Prevention

none

Response:

none

Storage:

none

Disposal:

none

Supplemental hazard information

Physical properties

none

health hazard properties

none

**Environmental properties** 

none

Other labelling

Standard phrases for special risks for humans or the environment

none

Labelling for contents according to regulation (EC) No. 648/2004

none

Standard phrases for safety precautions for the protection of humans or the environment

General provisions

none

Safety precautions for operators (SPo)

none

Safety precautions related to the environment (SPe)

none

Safety precautions related to good agricultural practice (SPa)

none

Specific safety precautions for rodenticides (SPr)

none

Standard phrases for special risks for humans or the environment

Special risks related to humans (RSh):

none

Special risks related to the environment (RSe):

none

#### 2.3 Other hazards

#### Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.



**MASTAZYME Cardiolipin Diluent** 

Print date 11.10.2024
Revision date 05.01.2024
Version 1.0

# Adverse human health effects and symptoms

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

#### Adverse physicochemical effects

none

#### Other adverse effects

none

#### Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

# **SECTION 3: Composition / information on ingredients**

#### 3.1/3.2 Substances/Mixtures

# Hazardous ingredients

sodium azide

CAS 26628-22-8

EC 247-852-1

INDEX 011-004-00-7

Acute Tox. 2, H300 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-

>=0,03 - <=0,05 %

0 - <= 0.09 %

isothiazol-3-one (3:1) CAS 55965-84-9

INDEX 613-167-00-5

Acute Tox. 2, H330 / Acute Tox. 2, H310 / Acute Tox. 3, H301 / Skin Corr. 1C, H314 / Eye Dam. 1, H318 / Skin Sens. 1A, H317 / Aquatic

Acute 1, H400 / Aquatic Chronic 1, H410

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

# **General information**

No special First Aid measures are required.

#### Following skin contact

Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleansing agent and water.

#### After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water.

#### Following ingestion

Rinse mouth thoroughly with water.

#### Self-protection of the first aider

none

# 4.2 Most important symptoms and effects, both acute and delayed

#### **Effects**

none

#### **Symptoms**

none

#### 4.3 Indication of any immediate medical attention and special treatment needed

## Notes for the doctor

none

#### **Special treatment**



**MASTAZYME Cardiolipin Diluent** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

# **SECTION 5: Firefighting measures**

#### **Additional information**

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

# 5.1 Extinguishing media

#### Suitable extinguishing media

Water

Sand

Carbon dioxide (CO2)

Extinguishing powder

#### Unsuitable extinguishing media

none

# 5.2 Special hazards arising from the substance or mixture

#### **Hazardous combustion products**

none

# 5.3 Advice for firefighters

# Special protective equipment for firefighters

No special equipment or techniques are required.

#### **SECTION 6: Accidental release measures**

#### **Additional information**

Absorb and remove liquid with absorbent material. Clean the affected surface with standard cleaning agents.

# 6.1 Personal precautions, protective equipment and emergency procedures

# For non-emergency personnel

#### Personal precautions

none

# **Protective equipment**

none

#### For emergency responders

#### Personal protection equipment

none

#### 6.2 Environmental precautions

none

# 6.3 Methods and material for containment and cleaning up

#### For containment

#### Suitable material for taking up

Commercially available materials are sufficient.

# For cleaning up

# Suitable material for diluting or neutralizing

Water

# 6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

#### Advices on general occupational hygiene

Provide eye shower and label its location conspicuously



**MASTAZYME Cardiolipin Diluent** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

#### **Protective measures**

# Advices on safe handling

No special technical protective measures are necessary.

# Measures to prevent fire

No special fire protection measures are necessary.

# **Environmental precautions**

No special technical protective measures are necessary.

# 7.2 Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

Storage conditions are listed on the labels. Additional information concerning the storage are given in the instructions for use.

# Hints on joint storage

#### Materials to avoid

none

# Further information on storage conditions

Protect against:

UV-radiation/sunlight

Temperatures outside the listed range.

# storage temperature

Value >=2 - <=8 °C

# 7.3 Specific end use(s)

# Recommendation

Observe instructions for use.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### Occupational exposure limit values

CAS No.	Substance name	LTV	STV	remark
26628-22-8	Sodium azide	0,1 mg/m³	0,3 (1) mg/m³	(1) 15 minutes average value Bold-type: Indicative Occupational Exposure Limit Value (IOELV) ~

European Union

LTV = long-term occupational exposure limit value STV = short-term occupational exposure limit value source: GESTIS International Limit Values (http://limitvalue.ifa.dguv.de/)

Monitoring and observation processes: GESTIS Analytical Methods (http://amcaw.ifa.dguv.de/)

Exposure limits at intended use

# biological limit values

# remark

No data available

#### **DNEL-/PNEC-values**

# **DNEL Consumer**

Substance name sodium azide

type

systemic



**MASTAZYME Cardiolipin Diluent** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

source

TRGS900

Value 0,493 mg/m<sup>3</sup>

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

type

local

source

Deutschland. MAK- und BAT Anhang IIa

Value 0,02 mg/m<sup>3</sup>

**PNEC** 

Value 0,35 µg/L

**PNEC** type

aquatic, freshwater

**Value** 0,015 μg/L

**PNEC** type

aquatic, marine water

Value 0,0167 mg/kg

**PNEC type** 

sediment, freshwater

Value 30 µg/L

**PNEC type** 

sewage treatment plant

# 8.2 Exposure controls

# Appropriate engineering controls

remark

See section 7. No additional measures necessary.

Personal protection equipment

Eye/face protection

Suitable eye protection

Eye glasses

Eye glasses with side protection

Skin protection

Suitable gloves type

Disposable gloves

Suitable material

NBR (Nitrile rubber)

**Body protection** 

Suitable protective clothing

lab coat

**Respiratory protection** 

none

**Environmental exposure controls** 

remark

See section 7. No additional measures necessary.

**Consumer exposure controls** 

Measures related to consumer uses of the substance (as such or in preparations).

not relevant



Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

Measures related to the service life of the substance in articles not relevant

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

# **Appearance**

**Physical state** 

liquid

Colour

green

Odour

odourless

#### **Odour threshold**

not relevant

	parameter	Method - source - remark
Melting point/freezing point		No data available
Boiling point or initial boiling point and boiling range		No data available
flammability		not relevant
Upper explosion limit		not relevant
lower explosion limit		not relevant
Flash point (°C)		not relevant
Auto-ignition temperature		not relevant
Decomposition temperature		not relevant
pH		No data available
Kinematic viscosity		No data available
Water solubility		No data available
Soluble (g/L) in		not relevant
Fat solubility		No data available
Partition coefficient: n-octanol/water		No data available
Vapour pressure		No data available
Density and/or relative density		No data available
Relative vapour density		No data available
particle characteristics		not relevant
Dynamic viscosity		No data available
flow time		No data available



**MASTAZYME Cardiolipin Diluent** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

parameter

Method - source - remark

Thermal sensitivity

A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).

Sensitiveness to impact (J)

A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).

Sensitivity to friction (N)

A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of

explosion).

Oxidising liquids No data available

Oxidising solids not relevant

Oxidising gas not relevant

# 9.2 Other information

## **Physical hazards**

# **Explosives**

# Justification for data waiving

The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.

# Flammable gases

# Justification for data waiving

not relevant

#### **Aerosols**

## Justification for data waiving

Testing can be waived because substance is not an aerosol.



# **MASTAZYME Cardiolipin Diluent**

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

## Oxidising gas

## Justification for data waiving

Testing can be waived because substance is a liquid.

## Gases under pressure

# Justification for data waiving

Testing can be waived because substance is a liquid.

## flammable liquids

# Justification for data waiving

not relevant

#### Flammable solids

#### Justification for data waiving

Testing can be waived because substance is a liquid.

#### Self-reactive substances and mixtures

## Justification for data waiving

The classification procedures for self-reactive substances and mixtures need not be applied because there are no chemical groups present in the molecule associated with explosive or selfreactive properties.

# **Pyrophoric liquids**

## Justification for data waiving

The study does not need to be conducted because the substance is known to be stable at room temperature for prolonged periods of time (days).

# **Pyrophoric solids**

## Justification for data waiving

Testing can be waived because substance is a liquid.

#### self-heating substances and mixtures

# Justification for data waiving

not relevant

# Substances or mixtures which, in contact with water, emit flammable gases

#### Justification for data waiving

not relevant

#### Oxidising liquids

#### Justification for data waiving

not relevant

## Oxidising solids

#### Justification for data waiving

Testing can be waived because substance is a liquid.

## Organic peroxides

## Justification for data waiving

Classification procedure not required, because the substance or the mixture is by definition not an organic peroxide.

#### Corrosive to metals

# Justification for data waiving

not relevant

#### **Desensitised explosives**

## Justification for data waiving

No data available

#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.



**MASTAZYME Cardiolipin Diluent** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

#### 10.2 Chemical stability

No hazardous reaction when handled and stored according to provisions. Further information on storage conditions: see subsection 7.2.

## 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

#### 10.4 Conditions to avoid

Further information on storage conditions: see subsection 7.2.

## 10.5 Incompatible materials

No further relevant information available.

# 10.6 Hazardous decomposition products

Does not decompose when used for intended uses. No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicokinetics, metabolism and distribution

# Human toxicological data

No data available

## Non-human toxikological data

#### remark

There are no data available on the preparation/mixture itself.

# **Acute toxicity**

#### Acute dermal toxicity

ingredient sodium azide

Acute dermal toxicity 18 mg/kg

#### **Effective dose**

LD50:

# Species:

Rabbit

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute dermal toxicity 2,8 mg/kg

## **Effective dose**

LD50:

#### Species:

Rabbit

# Acute inhalation toxicity (dust/mist)

ingredient sodium azide

Acute inhalation toxicity (dust/mist) 5,4 mg/kg

#### **Effective dose**

LC50:

Exposure time 4

# Species:

Rat

#### Acute inhalation toxicity (vapour)

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute inhalation toxicity (vapour) 16,67 mg/L

Exposure time 4 d

# Acute oral toxicity

ingredient sodium azide

Acute oral toxicity 27 mg/kg



MASTAZYME Cardiolipin Diluent

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

#### Effective dose

LD50:

## Species:

Rat

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute oral toxicity 862 mg/kg

# **Effective dose**

LD50:

# Species:

Rat

#### skin corrosion/irritation

#### Assessment/classification

No data available

## Respiratory or skin sensitisation

# Sensitisation to the respiratory tract

#### Assessment/classification

No data available

#### Skin sensitisation

#### Assessment/classification

No data available

# CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

# Germ cell mutagenicity

# Human toxicological data

## Result

not relevant

## In vitro mutagenicity/genotoxicity

#### **Genetic endpoint**

not relevant

# In vivo mutagenicity/genotoxicity

#### Result / evaluation

not relevant

## Carcinogenicity

#### Result / evaluation

No data available

# Reproductive toxicity

#### Assessment/classification

No data available

# Adverse effects on sexual function and fertility

#### Result / evaluation

No data available

#### Adverse effects on developmental toxicity

# Result / evaluation

No data available

#### Effects on or via lactation

# Result

No data available



MASTAZYME Cardiolipin Diluent

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

STOT-single exposure

STOT SE 1 and 2

Dermal specific target organ toxicity (single exposure)

remark

No data available

Inhalative specific target organ toxicity (single exposure)

remark

No data available

Oral specific target organ toxicity (single exposure)

remark

No data available

STOT SE 3

Irritation to respiratory tract

Assessment/classification

No data available

**STOT-repeated exposure** 

STOT RE 1 and 2

Dermal specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Inhalative specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

**Oral specific target organ toxicity (repeated exposure)** 

Assessment/classification

No data available

Repeated dose toxicity (subacute, subchronic, chronic)

Subacute oral toxicity

remark

No data available

Subacute dermal toxicity

Specific effects:

No data available

Subacute inhalation toxicity

**Specific effects:** 

No data available

Subchronic dermal toxicity

**Specific effects:** 

No data available

Subchronic inhalation toxicity

Specific effects:

No data available

Chronic oral toxicity

Specific effects:

No data available

**Chronic dermal toxicity** 



**MASTAZYME Cardiolipin Diluent** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

#### Specific effects:

No data available

# **Chronic inhalation toxicity**

# Specific effects:

No data available

#### 11.2 Information on other hazards

## **Endocrine disrupting properties**

#### remark

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

#### **Phototoxicity**

In vitro phototoxicity

evaluation

No data available

## In vivo phototoxicity

evaluation

No data available

# **SECTION 12: Ecological information**

12.1 Toxicity

**Aquatic toxicity** 

Acute (short-term) toxicity to crustacea

Result / evaluation

none

# Chronic (long-term) toxicity to aquatic invertebrate

remark

none

# Chronic (long-term) fish toxicity

Result / evaluation

none

# Acute (short-term) toxicity to algae and cyanobacteria

ingredient sodium azide

Acute (short-term) toxicity to algae and cyanobacteria 0,348 mg/L

Effective dose

EC50

Test duration 4 d

species

Alge/Wasserpflanze

#### Chronic (long-term) toxicity to aquatic algae and cyanobacteria

evaluation parameter:

none

#### Toxicity to other aquatic plants/organisms

Result / evaluation

none

# Toxicity to microorganisms

Result / evaluation



**MASTAZYME Cardiolipin Diluent** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

#### **Terrestrial toxicity**

Effects on soil microorganisms

evaluation

none

Toxicity to soil macroorganisms except of arthropods

Acute earthworm toxicity

evaluation

none

**Chronical earthworm toxicity (reproduction)** 

evaluation

none

Toxicity to terrestrial arthropods

Insect toxicity

evaluation

none

Toxicity to terrestrial plants

Acute plant toxicity

evaluation

none

Chronic plant toxicity

evaluation

none

**Toxicity to birds** 

Acute and subchronic bird toxicity

evaluation

none

Bird reproduction toxicity

evaluation

none

Additional ecotoxicological information

**General information** 

none

12.2 Persistence and degradability

Assessment/classification

The substance meets the criteria of ready degradability as defined in Regulation (EC) No 1272/2008.

12.3 Bioaccumulative potential

Assessment/classification

not applicable

12.4 Mobility in soil

Assessment/classification

No data available

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

remark

No data available



**MASTAZYME Cardiolipin Diluent** 

Print date 11.10.2024 Revision date 05.01.2024 Version 1.0

#### 12.7 Other adverse effects

No information available.

#### **SECTION 13: Disposal considerations**

# 13.1 Waste treatment methods

**Directive 2008/98/EC (Waste Framework Directive)** 

#### Before intended use

Waste code product 180100

hazardous waste No

Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code product 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

#### After intended use

Waste code packaging 180100

hazardous waste No

Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code packaging 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

#### **SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	not applicable	not applicable	not applicable
14.2 Proper Shipping Name	not applicable	not applicable	not applicable
14.3 Class(es)	not applicable	not applicable	not applicable
14.4 Packing group	not applicable	not applicable	not applicable
14.5 Environmental hazards	not applicable	not applicable	not applicable
14.6 Special precautions for use	r not applicable	not applicable	not applicable
14.7 Maritime transport in bulk according to IMO instruments	not applicable	not applicable	not applicable

# Additional information

#### All transport carriers

No dangerous good in sense of these transport regulations.

#### **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU legislation

Authorisations and/or restrictions on use

authorisations



**MASTAZYME Cardiolipin Diluent** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

#### restrictions on use

none

# 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

# **SECTION 16: Other information**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP] See SECTION 2.1 (classification).

# Indication of changes

not relevant

## **Additional information**

not relevant

Relevant R-, H- and EUH-phrases (Number and full text)

none

# **Training advice**



**MASTAZYME AI-ELISA conjugate** 

Print date 11.10.2024 Revision date 05.01.2024 Version 1.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name/designation MASTAZYME AI-ELISA conjugate

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

#### Relevant identified uses

#### remark

The product is intended for professional use.

# Sector of uses [SU]

SU20 Health services

# 1.3 Details of the supplier of the safety data sheet

#### Manufacturer

Mast Diagnostica GmbH

Feldstraße 20

Deutschland-23858 Reinfeld Telephone: +49 4533 20 07 00 Telefax: +49 4533 2007 68

E-mail: mast@mast-diagnostica.de

www.mast-group.com

# 1.4 Emergency telephone number

Only available during office hours.

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### **Additional information**

The mixture is not classified as hazardous according to Regulation (EC) No 1272/2008 [CLP].

# Classification according to Regulation (EC) No 1272/2008 [CLP]

#### health hazards

hazard statements for health hazards

none

## **Physical hazards**

hazard statements for physical hazards

none

#### **Environmental hazards**

none

# Additional hazards

none

#### Specific concentration limit (SCL)

Hazard classes and hazard categories

none

#### 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

## Signal word

none

#### **Hazard statements**

Hazard statements for physical hazards

none

## hazard statements for health hazards



**MASTAZYME AI-ELISA conjugate** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

#### Hazard statements for environmental hazards

none

Hazard statements for additional hazards

none

# **Precautionary statements**

General:

none

Prevention

none

Response:

none

Storage:

none

Disposal:

none

# Supplemental hazard information

Physical properties

none

health hazard properties

none

**Environmental properties** 

none

#### Other labelling

#### Standard phrases for special risks for humans or the environment

none

Labelling for contents according to regulation (EC) No. 648/2004

none

# Standard phrases for safety precautions for the protection of humans or the environment

## General provisions

none

Safety precautions for operators (SPo)

none

Safety precautions related to the environment (SPe)

none

Safety precautions related to good agricultural practice (SPa)

none

Specific safety precautions for rodenticides (SPr)

none

## Standard phrases for special risks for humans or the environment

Special risks related to humans (RSh):

none

Special risks related to the environment (RSe):

none

#### 2.3 Other hazards

#### Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.



**MASTAZYME AI-ELISA conjugate** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

#### Adverse human health effects and symptoms

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

## Adverse physicochemical effects

none

#### Other adverse effects

none

#### Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

# **SECTION 3: Composition / information on ingredients**

# 3.1/3.2 Substances/Mixtures

# Hazardous ingredients

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H- >=0,05 - <=0,08 % isothiazol-3-one (3:1)

CAS 55965-84-9

INDEX 613-167-00-5

Acute Tox. 2, H330 / Acute Tox. 2, H310 / Acute Tox. 3, H301 / Skin Corr. 1C, H314 / Eye Dam. 1, H318 / Skin Sens. 1A, H317 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410

#### **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

#### **General information**

No special First Aid measures are required.

# Following skin contact

Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleansing agent and water.

#### After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water.

#### Following ingestion

Rinse mouth thoroughly with water.

## Self-protection of the first aider

none

# 4.2 Most important symptoms and effects, both acute and delayed

#### **Effects**

none

#### **Symptoms**

none

# 4.3 Indication of any immediate medical attention and special treatment needed

#### Notes for the doctor

none

# **Special treatment**

none

## **SECTION 5: Firefighting measures**

#### **Additional information**

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

# 5.1 Extinguishing media

## Suitable extinguishing media

Water



**MASTAZYME AI-ELISA conjugate** 

Print date 11.10.2024 Revision date 05.01.2024 Version 1.0

Sand

Carbon dioxide (CO2)

Extinguishing powder

Unsuitable extinguishing media

none

5.2 Special hazards arising from the substance or mixture

**Hazardous combustion products** 

none

5.3 Advice for firefighters

Special protective equipment for firefighters

No special equipment or techniques are required.

#### **SECTION 6: Accidental release measures**

#### **Additional information**

Absorb and remove liquid with absorbent material. Clean the affected surface with standard cleaning agents.

# 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Personal precautions

none

**Protective equipment** 

none

For emergency responders

Personal protection equipment

none

6.2 Environmental precautions

none

6.3 Methods and material for containment and cleaning up

For containment

Suitable material for taking up

Commercially available materials are sufficient.

For cleaning up

Suitable material for diluting or neutralizing

Water

6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

# Advices on general occupational hygiene

Provide eye shower and label its location conspicuously

**Protective measures** 

Advices on safe handling

No special technical protective measures are necessary.

Measures to prevent fire

No special fire protection measures are necessary.



**MASTAZYME AI-ELISA conjugate** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

#### **Environmental precautions**

No special technical protective measures are necessary.

# 7.2 Conditions for safe storage, including any incompatibilities

# Technical measures and storage conditions

Storage conditions are listed on the labels. Additional information concerning the storage are given in the instructions for use.

#### Hints on joint storage

#### Materials to avoid

none

## Further information on storage conditions

Protect against:

UV-radiation/sunlight

Temperatures outside the listed range.

# storage temperature

Value >=2 - <=8 °C

## 7.3 Specific end use(s)

#### Recommendation

Observe instructions for use.

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

## Exposure limits at intended use

#### biological limit values

#### remark

No data available

# **DNEL-/PNEC-values**

## **DNEL Consumer**

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

# type

local

#### source

Deutschland. MAK- und BAT Anhang IIa

Value 0,02 mg/m<sup>3</sup>

#### 8.2 Exposure controls

#### Appropriate engineering controls

#### remark

See section 7. No additional measures necessary.

#### Personal protection equipment

#### Eye/face protection

## Suitable eye protection

Eye glasses

Eye glasses with side protection

## Skin protection

# Suitable gloves type

Disposable gloves

## Suitable material

NBR (Nitrile rubber)



**MASTAZYME AI-ELISA conjugate** 

Print date 11.10.2024 Revision date 05.01.2024 Version 1.0

# **Body protection**

# Suitable protective clothing

lab coat

# **Respiratory protection**

none

# **Environmental exposure controls**

remark

See section 7. No additional measures necessary.

#### Consumer exposure controls

Measures related to consumer uses of the substance (as such or in preparations).

not relevant

Measures related to the service life of the substance in articles

not relevant

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

## **Appearance**

# **Physical state**

liquid

#### Colour

red

#### Odour

odourless

# **Odour threshold**

not relevant

	parameter	Method - source - remark
Melting point/freezing point		No data available
Boiling point or initial boiling point and boiling range		No data available
flammability		not relevant
Upper explosion limit		not relevant
lower explosion limit		not relevant
Flash point (°C)		not relevant
Auto-ignition temperature		not relevant
Decomposition temperature		not relevant
pH		No data available
Kinematic viscosity		No data available
Water solubility		No data available
Soluble (g/L) in		not relevant
Fat solubility		No data available
Partition coefficient: n-octanol/water		No data available



MASTAZYME AI-ELISA conjugate

Print date 11.10.2024
Revision date 05.01.2024
Version 1.0

certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk explosion).  Sensitiveness to impact (J)  A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk explosion).  Sensitivity to friction (N)  A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the naterial celease		parameter	Method - source - remark
Relative vapour density particle characteristics Dynamic viscosity No data available No data available No data available Thermal sensitivity A14: The tests need not be performed when available thermodynamic information (e.g. heat of ferromation, heat of decomposition) and/or absence of certain reactive groups in the surface of the sur	Vapour pressure		No data available
particle characteristics  Dynamic viscosity  No data available  No data available  Thermal sensitivity  A 14: The tests need not be performed when available hemmodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the survivance in formation (e.g. heat of promatic information (e.g. heat of formation is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk explosion).  Sensitiveness to impact (J)  A 14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the survivance of the survivan	Density and/or relative density		No data available
Dynamic viscosity  No data available  No data available  Thermal sensitivity  A 14: The tests need not be performed when available hermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk explosion).  Sensitiveness to impact (J)  A 14: The tests need not be performed when available hermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk explosion).  Oxidising solids  No data available not relevant	Relative vapour density		No data available
flow time  Thermal sensitivity  A .1.4: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and of or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk explosion).  Sensitiveness to impact (J)  A .1.4: The tests need not be performed when available thermodynamic information (e.g. heat of mortion, heat of the structural formula establishes beyond reasonable doubt that the substance is nicapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk explosion).  Sensitivity to friction (N)  A .1.4: The tests need not be performed when available themodynamic information (e.g. heat of mortion, heat stablishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk explosion).  Sensitivity to friction (N)  A .1.4: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) with evolution of gases or release of heat (i.e. the material does not present any risk explosion).  Oxidising liquids  Oxidising solids  No data available  No data available  not relevant	particle characteristics		not relevant
Thermal sensitivity  A 14: The tests need not be performed when available thermodynamic information (e.g., heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the sructural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk explosion).  Sensitiveness to impact (J)  A 14: The tests need not be performed when available thermodynamic information (e.g., heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the sructural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition) and/ or absence of gases or release of heat (i.e. the material does not present any risk explosion).  Sensitivity to friction (N)  A 14: The tests need not be performed when available thermodynamic information (e.g., heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk explosion).  Oxidising liquids  Oxidising solids  A 14: The tests need not be performed when available thermodynamic information (e.g., heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk explosion).  Oxidising liquids  Oxidising solids	Dynamic viscosity		No data available
berformed when available thermodynamic information (e.g., heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the surctural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk explosion).  Sensitiveness to impact (J)  A.14: The tests need not be performed when available thermodynamic information (e.g., heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk explosion).  Sensitivity to friction (N)  A.14: The tests need not be performed when available thermodynamic information (e.g., heat of formation, heat of decomposition) and/ or absence of decomposition and/ or absence of decomposition and/ or absence of decomposition and/ or absence of decomposition) and/ or absence of decomposition and/ or absence of decomposition and/ or absence of decomposition with evolution of gases or release of heat (i.e. the material does not present any risk explosion).  Oxidising liquids  Oxidising solids  not relevant	flow time		No data available
performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk explosion).  Sensitivity to friction (N)  A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk explosion).  Oxidising liquids  No data available  Oxidising solids	Thermal sensitivity		performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the srructural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk or
performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk explosion).  Oxidising liquids  No data available  Oxidising solids	Sensitiveness to impact (J)		performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the srructural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk or
Oxidising solids not relevant	Sensitivity to friction (N)		performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the srructural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk o
	Oxidising liquids		No data available
Oxidising gas not relevant	Oxidising solids		not relevant
	Oxidising gas		not relevant

# 9.2 Other information

**Physical hazards** 

**Explosives** 

# Justification for data waiving

The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.



**MASTAZYME AI-ELISA conjugate** 

Print date 11.10.2024 Revision date 05.01.2024 Version 1.0

## Flammable gases

## Justification for data waiving

not relevant

#### **Aerosols**

## Justification for data waiving

Testing can be waived because substance is not an aerosol.

## Oxidising gas

## Justification for data waiving

Testing can be waived because substance is a liquid.

## Gases under pressure

## Justification for data waiving

Testing can be waived because substance is a liquid.

## flammable liquids

# Justification for data waiving

not relevant

#### Flammable solids

## Justification for data waiving

Testing can be waived because substance is a liquid.

#### Self-reactive substances and mixtures

#### Justification for data waiving

The classification procedures for self-reactive substances and mixtures need not be applied because there are no chemical groups present in the molecule associated with explosive or selfreactive properties.

#### **Pyrophoric liquids**

# Justification for data waiving

The study does not need to be conducted because the substance is known to be stable at room temperature for prolonged periods of time (days).

#### **Pyrophoric solids**

#### Justification for data waiving

Testing can be waived because substance is a liquid.

## self-heating substances and mixtures

#### Justification for data waiving

not relevant

# Substances or mixtures which, in contact with water, emit flammable gases

#### Justification for data waiving

not relevant

## **Oxidising liquids**

## Justification for data waiving

not relevant

# **Oxidising solids**

# Justification for data waiving

Testing can be waived because substance is a liquid.

#### Organic peroxides

## Justification for data waiving

Classification procedure not required, because the substance or the mixture is by definition not an organic peroxide.

#### Corrosive to metals

# Justification for data waiving

not relevant



MASTAZYME AI-ELISA conjugate

Print date 11.10.2024
Revision date 05.01.2024
Version 1.0

## **Desensitised explosives**

# Justification for data waiving

No data available

## **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

# 10.2 Chemical stability

No hazardous reaction when handled and stored according to provisions. Further information on storage conditions: see subsection 7.2.

# 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

#### 10.4 Conditions to avoid

Further information on storage conditions: see subsection 7.2.

## 10.5 Incompatible materials

No further relevant information available.

## 10.6 Hazardous decomposition products

Does not decompose when used for intended uses. No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

# Toxicokinetics, metabolism and distribution

# Human toxicological data

No data available

# Non-human toxikological data

#### remark

There are no data available on the preparation/mixture itself.

# **Acute toxicity**

#### Acute dermal toxicity

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute dermal toxicity 2,8 mg/kg

# **Effective dose**

LD50:

#### Species:

. Rabbit

# **Acute inhalation toxicity (vapour)**

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute inhalation toxicity (vapour) 16,67 mg/L

Exposure time 4 d

#### Acute oral toxicity

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute oral toxicity 862 mg/kg

# **Effective dose**

LD50:

#### Species:

. Rat

# skin corrosion/irritation

#### Assessment/classification

No data available



**MASTAZYME AI-ELISA conjugate** 

Print date 11.10.2024 Revision date 05.01.2024 Version 1.0

# Respiratory or skin sensitisation

Sensitisation to the respiratory tract

Assessment/classification

No data available

Skin sensitisation

Assessment/classification

No data available

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity

Human toxicological data

Result

not relevant

In vitro mutagenicity/genotoxicity

**Genetic endpoint** 

not relevant

In vivo mutagenicity/genotoxicity

Result / evaluation

not relevant

Carcinogenicity

Result / evaluation

No data available

Reproductive toxicity

Assessment/classification

No data available

Adverse effects on sexual function and fertility

Result / evaluation

No data available

Adverse effects on developmental toxicity

Result / evaluation

No data available

Effects on or via lactation

Result

No data available

**STOT-single exposure** 

STOT SE 1 and 2

Dermal specific target organ toxicity (single exposure)

remark

No data available

Inhalative specific target organ toxicity (single exposure)

remark

No data available

Oral specific target organ toxicity (single exposure)

remark

No data available



1.0

**MASTAZYME AI-ELISA conjugate** 

Version

Print date 11.10.2024 Revision date 05.01.2024

STOT SE 3

Irritation to respiratory tract

Assessment/classification

No data available

STOT-repeated exposure

STOT RE 1 and 2

Dermal specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Inhalative specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Oral specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Repeated dose toxicity (subacute, subchronic, chronic)

Subacute oral toxicity

remark

No data available

Subacute dermal toxicity

Specific effects:

No data available

Subacute inhalation toxicity

Specific effects:

No data available

Subchronic dermal toxicity

Specific effects:

No data available

Subchronic inhalation toxicity

Specific effects:

No data available

Chronic oral toxicity

Specific effects:

No data available

**Chronic dermal toxicity** 

Specific effects:

No data available

**Chronic inhalation toxicity** 

Specific effects:

No data available

11.2 Information on other hazards

**Endocrine disrupting properties** 

remark

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.



**MASTAZYME AI-ELISA conjugate** 

Print date 11.10.2024 Revision date 05.01.2024 Version 1.0

**Phototoxicity** 

In vitro phototoxicity

evaluation

No data available

In vivo phototoxicity

evaluation

No data available

# **SECTION 12: Ecological information**

12.1 Toxicity

**Aquatic toxicity** 

Acute (short-term) toxicity to crustacea

Result / evaluation

none

Chronic (long-term) toxicity to aquatic invertebrate

remark

none

Chronic (long-term) fish toxicity

Result / evaluation

none

Chronic (long-term) toxicity to aquatic algae and cyanobacteria

evaluation parameter:

none

Toxicity to other aquatic plants/organisms

Result / evaluation

none

Toxicity to microorganisms

Result / evaluation

none

**Terrestrial toxicity** 

Effects on soil microorganisms

evaluation

none

Toxicity to soil macroorganisms except of arthropods

Acute earthworm toxicity

evaluation

none

**Chronical earthworm toxicity (reproduction)** 

evaluation

none

Toxicity to terrestrial arthropods

Insect toxicity

evaluation

none

**Toxicity to terrestrial plants** 

Acute plant toxicity



**MASTAZYME AI-ELISA conjugate** 

Print date 11.10.2024 Revision date 05.01.2024 Version 1.0

evaluation

none

Chronic plant toxicity

evaluation

none

Toxicity to birds

Acute and subchronic bird toxicity

evaluation

none

Bird reproduction toxicity

evaluation

none

Additional ecotoxicological information

**General information** 

none

12.2 Persistence and degradability

Assessment/classification

The substance meets the criteria of ready degradability as defined in Regulation (EC) No 1272/2008.

12.3 Bioaccumulative potential

Assessment/classification

not applicable

12.4 Mobility in soil

Assessment/classification

No data available

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

remark

No data available

12.7 Other adverse effects

No information available.

**SECTION 13: Disposal considerations** 

13.1 Waste treatment methods

**Directive 2008/98/EC (Waste Framework Directive)** 

Before intended use

Waste code product 180100

hazardous waste No

Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code product 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

After intended use

Waste code packaging 180100

hazardous waste No



**MASTAZYME AI-ELISA conjugate** 

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

#### Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code packaging 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

# **SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	not applicable	not applicable	not applicable
14.2 Proper Shipping Name	not applicable	not applicable	not applicable
14.3 Class(es)	not applicable	not applicable	not applicable
14.4 Packing group	not applicable	not applicable	not applicable
14.5 Environmental hazards	not applicable	not applicable	not applicable
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Maritime transport in bulk according to IMO instruments	not applicable	not applicable	not applicable

#### **Additional information**

#### All transport carriers

No dangerous good in sense of these transport regulations.

# **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU legislation

# Authorisations and/or restrictions on use

authorisations

none

restrictions on use

none

# 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP] See SECTION 2.1 (classification).

#### Indication of changes

not relevant

## **Additional information**

not relevant

#### Relevant R-, H- and EUH-phrases (Number and full text)

none

## Training advice



**MASTAZYME** Cardiolipin conjugate

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name/designation MASTAZYME Cardiolipin conjugate

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

#### Relevant identified uses

#### remark

The product is intended for professional use.

# Sector of uses [SU]

SU20 Health services

# 1.3 Details of the supplier of the safety data sheet

#### Manufacturer

Mast Diagnostica GmbH

Feldstraße 20

Deutschland-23858 Reinfeld Telephone: +49 4533 20 07 00 Telefax: +49 4533 2007 68

E-mail: mast@mast-diagnostica.de

www.mast-group.com

# 1.4 Emergency telephone number

Only available during office hours.

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### **Additional information**

The mixture is not classified as hazardous according to Regulation (EC) No 1272/2008 [CLP].

# Classification according to Regulation (EC) No 1272/2008 [CLP]

#### health hazards

hazard statements for health hazards

none

## **Physical hazards**

hazard statements for physical hazards

none

#### **Environmental hazards**

none

# Additional hazards

none

#### Specific concentration limit (SCL)

Hazard classes and hazard categories

none

#### 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

## Signal word

none

#### **Hazard statements**

Hazard statements for physical hazards

none

#### hazard statements for health hazards



**MASTAZYME** Cardiolipin conjugate

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

#### Hazard statements for environmental hazards

none

Hazard statements for additional hazards

none

# **Precautionary statements**

General:

none

Prevention

none

Response:

none

Storage:

none

Disposal:

none

# Supplemental hazard information

Physical properties

none

health hazard properties

none

**Environmental properties** 

none

#### Other labelling

#### Standard phrases for special risks for humans or the environment

none

Labelling for contents according to regulation (EC) No. 648/2004

none

# Standard phrases for safety precautions for the protection of humans or the environment

## General provisions

none

Safety precautions for operators (SPo)

none

Safety precautions related to the environment (SPe)

none

Safety precautions related to good agricultural practice (SPa)

none

Specific safety precautions for rodenticides (SPr)

none

#### Standard phrases for special risks for humans or the environment

Special risks related to humans (RSh):

none

Special risks related to the environment (RSe):

none

## 2.3 Other hazards

#### Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.



**MASTAZYME** Cardiolipin conjugate

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

#### Adverse human health effects and symptoms

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

## Adverse physicochemical effects

none

#### Other adverse effects

none

#### Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

# **SECTION 3: Composition / information on ingredients**

# 3.1/3.2 Substances/Mixtures

# **Hazardous ingredients**

reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H- >=0,05 - <=0,08 % isothiazol-3-one (3:1)

CAS 55965-84-9

INDEX 613-167-00-5

Acute Tox. 2, H330 / Acute Tox. 2, H310 / Acute Tox. 3, H301 / Skin Corr. 1C, H314 / Eye Dam. 1, H318 / Skin Sens. 1A, H317 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410

#### **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

#### **General information**

No special First Aid measures are required.

# Following skin contact

Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleansing agent and water.

#### After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water.

#### Following ingestion

Rinse mouth thoroughly with water.

## Self-protection of the first aider

none

# 4.2 Most important symptoms and effects, both acute and delayed

#### **Effects**

none

#### **Symptoms**

none

# 4.3 Indication of any immediate medical attention and special treatment needed

#### Notes for the doctor

none

# **Special treatment**

none

#### **SECTION 5: Firefighting measures**

#### **Additional information**

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

## 5.1 Extinguishing media

## Suitable extinguishing media

Water



1.0

**MASTAZYME** Cardiolipin conjugate

Version

Print date 11.10.2024 Revision date 05.01.2024

Sand

Carbon dioxide (CO2)

Extinguishing powder

Unsuitable extinguishing media

none

5.2 Special hazards arising from the substance or mixture

**Hazardous combustion products** 

none

5.3 Advice for firefighters

Special protective equipment for firefighters

No special equipment or techniques are required.

#### **SECTION 6: Accidental release measures**

#### **Additional information**

Absorb and remove liquid with absorbent material. Clean the affected surface with standard cleaning agents...

# 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Personal precautions

none

**Protective equipment** 

none

For emergency responders

Personal protection equipment

none

6.2 Environmental precautions

none

6.3 Methods and material for containment and cleaning up

For containment

Suitable material for taking up

Commercially available materials are sufficient.

For cleaning up

Suitable material for diluting or neutralizing

Water

6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

# Advices on general occupational hygiene

Provide eye shower and label its location conspicuously

**Protective measures** 

Advices on safe handling

No special technical protective measures are necessary.

Measures to prevent fire

No special fire protection measures are necessary.



**MASTAZYME** Cardiolipin conjugate

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

#### **Environmental precautions**

No special technical protective measures are necessary.

## 7.2 Conditions for safe storage, including any incompatibilities

# Technical measures and storage conditions

Lagerung ist unter der auf den Etikett aufgeführten Bedingungen zu erfolgen. Zusätzliche Informationen zur Lagerung sind in den Gebrauchsinformationen aufgeführt.

#### Hints on joint storage

#### Materials to avoid

none

## Further information on storage conditions

Protect against:

UV-radiation/sunlight

Temperatures outside the listed range.

# storage temperature

Value >=2 - <=8 °C

## 7.3 Specific end use(s)

#### Recommendation

Observe instructions for use.

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

# Exposure limits at intended use

#### biological limit values

# remark

No data available

#### **DNEL-/PNEC-values**

## **DNEL Consumer**

Substance name reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

# type

local

#### source

Deutschland. MAK- und BAT Anhang IIa

Value 0,02 mg/m<sup>3</sup>

#### 8.2 Exposure controls

#### Appropriate engineering controls

#### remark

See section 7. No additional measures necessary.

#### Personal protection equipment

#### Eye/face protection

## Suitable eye protection

Eye glasses

Eye glasses with side protection

# Skin protection

# Suitable gloves type

Disposable gloves

# Suitable material

NBR (Nitrile rubber)



**MASTAZYME Cardiolipin conjugate** 

Print date 11.10.2024 Revision date 05.01.2024 Version 1.0

# **Body protection**

# Suitable protective clothing

lab coat

# **Respiratory protection**

none

# **Environmental exposure controls**

remark

See section 7. No additional measures necessary.

#### Consumer exposure controls

Measures related to consumer uses of the substance (as such or in preparations).

not relevant

Measures related to the service life of the substance in articles

not relevant

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

# **Appearance**

# **Physical state**

liquid

#### Colour

red

#### Odour

odourless

# **Odour threshold**

not relevant

	parameter	Method - source - remark
Melting point/freezing point		No data available
Boiling point or initial boiling point and boiling range		No data available
flammability		not relevant
Upper explosion limit		not relevant
lower explosion limit		not relevant
Flash point (°C)		not relevant
Auto-ignition temperature		not relevant
Decomposition temperature		not relevant
рН		No data available
Kinematic viscosity		No data available
Water solubility		No data available
Soluble (g/L) in		not relevant
Fat solubility		No data available
Partition coefficient: n-octanol/water		No data available



**MASTAZYME** Cardiolipin conjugate

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

	parameter	Method - source - remark
Vapour pressure		No data available
Density and/or relative density		No data available
Relative vapour density		No data available
particle characteristics		not relevant
Dynamic viscosity		No data available
flow time		No data available
Thermal sensitivity		A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation) and/ or absence of certain reactive groups in the srructural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).
Sensitiveness to impact (J)		A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).
Sensitivity to friction (N)		A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).
Oxidising liquids		No data available
Oxidising solids		not relevant

# 9.2 Other information

**Physical hazards** 

**Explosives** 

# Justification for data waiving

The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.



**MASTAZYME** Cardiolipin conjugate

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

## Flammable gases

# Justification for data waiving

not relevant

#### **Aerosols**

## Justification for data waiving

Testing can be waived because substance is not an aerosol.

## Oxidising gas

## Justification for data waiving

Testing can be waived because substance is a liquid.

## Gases under pressure

## Justification for data waiving

Testing can be waived because substance is a liquid.

# flammable liquids

# Justification for data waiving

not relevant

#### Flammable solids

## Justification for data waiving

Testing can be waived because substance is a liquid.

#### Self-reactive substances and mixtures

#### Justification for data waiving

The classification procedures for self-reactive substances and mixtures need not be applied because there are no chemical groups present in the molecule associated with explosive or selfreactive properties.

#### **Pyrophoric liquids**

# Justification for data waiving

The study does not need to be conducted because the substance is known to be stable at room temperature for prolonged periods of time (days).

#### **Pyrophoric solids**

#### Justification for data waiving

Testing can be waived because substance is a liquid.

## self-heating substances and mixtures

#### Justification for data waiving

not relevant

# Substances or mixtures which, in contact with water, emit flammable gases

#### Justification for data waiving

not relevant

## **Oxidising liquids**

# Justification for data waiving

not relevant

# **Oxidising solids**

# Justification for data waiving

Testing can be waived because substance is a liquid.

#### Organic peroxides

## Justification for data waiving

Classification procedure not required, because the substance or the mixture is by definition not an organic peroxide.

#### Corrosive to metals

# Justification for data waiving

not relevant



**MASTAZYME** Cardiolipin conjugate

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

#### **Desensitised explosives**

# Justification for data waiving

No data available

# **SECTION 10: Stability and reactivity**

# 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

# 10.2 Chemical stability

No hazardous reaction when handled and stored according to provisions. Further information on storage conditions: see subsection 7.2.

# 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

#### 10.4 Conditions to avoid

Further information on storage conditions: see subsection 7.2.

## 10.5 Incompatible materials

No further relevant information available.

## 10.6 Hazardous decomposition products

Does not decompose when used for intended uses. No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

## Toxicokinetics, metabolism and distribution

# Human toxicological data

No data available

# Non-human toxikological data

#### remark

There are no data available on the preparation/mixture itself.

# **Acute toxicity**

#### Acute dermal toxicity

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute dermal toxicity 2,8 mg/kg

# **Effective dose**

LD50:

#### Species:

Rabbit

# **Acute inhalation toxicity (vapour)**

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute inhalation toxicity (vapour) 16,67 mg/L

Exposure time 4 d

#### Acute oral toxicity

ingredient reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

Acute oral toxicity 862 mg/kg

# **Effective dose**

LD50:

#### Species:

. Rat

## skin corrosion/irritation

#### Assessment/classification

No data available



**MASTAZYME** Cardiolipin conjugate

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

# Respiratory or skin sensitisation

# Sensitisation to the respiratory tract

#### Assessment/classification

No data available

#### Skin sensitisation

#### Assessment/classification

No data available

# CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

## Germ cell mutagenicity

# Human toxicological data

#### Result

not relevant

# In vitro mutagenicity/genotoxicity

# **Genetic endpoint**

not relevant

# In vivo mutagenicity/genotoxicity

#### Result / evaluation

not relevant

#### Carcinogenicity

#### Result / evaluation

No data available

# Reproductive toxicity

#### Assessment/classification

No data available

## Adverse effects on sexual function and fertility

#### Result / evaluation

No data available

# Adverse effects on developmental toxicity

#### Result / evaluation

No data available

## Effects on or via lactation

#### Result

No data available

## **STOT-single exposure**

STOT SE 1 and 2

# Dermal specific target organ toxicity (single exposure)

#### remark

No data available

# Inhalative specific target organ toxicity (single exposure)

#### remark

No data available

# Oral specific target organ toxicity (single exposure)

#### remark

No data available



**MASTAZYME** Cardiolipin conjugate

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

#### STOT SE 3

# Irritation to respiratory tract

## Assessment/classification

No data available

# STOT-repeated exposure

STOT RE 1 and 2

# Dermal specific target organ toxicity (repeated exposure)

#### Assessment/classification

No data available

## Inhalative specific target organ toxicity (repeated exposure)

#### Assessment/classification

No data available

# Oral specific target organ toxicity (repeated exposure)

#### Assessment/classification

No data available

## Repeated dose toxicity (subacute, subchronic, chronic)

# Subacute oral toxicity

remark

No data available

# Subacute dermal toxicity

#### Specific effects:

No data available

#### Subacute inhalation toxicity

# Specific effects:

No data available

#### Subchronic dermal toxicity

#### Specific effects:

No data available

## Subchronic inhalation toxicity

#### **Specific effects:**

No data available

#### Chronic oral toxicity

#### Specific effects:

No data available

## **Chronic dermal toxicity**

#### **Specific effects:**

No data available

## **Chronic inhalation toxicity**

# Specific effects:

No data available

## 11.2 Information on other hazards

# **Endocrine disrupting properties**

#### remark

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.



**MASTAZYME** Cardiolipin conjugate

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

**Phototoxicity** 

In vitro phototoxicity

evaluation

No data available

In vivo phototoxicity

evaluation

No data available

**SECTION 12: Ecological information** 

12.1 Toxicity

**Aquatic toxicity** 

Acute (short-term) toxicity to crustacea

Result / evaluation

none

Chronic (long-term) toxicity to aquatic invertebrate

remark

none

Chronic (long-term) fish toxicity

Result / evaluation

none

Chronic (long-term) toxicity to aquatic algae and cyanobacteria

evaluation parameter:

none

Toxicity to other aquatic plants/organisms

Result / evaluation

none

**Toxicity to microorganisms** 

Result / evaluation

none

**Terrestrial toxicity** 

Effects on soil microorganisms

evaluation

none

Toxicity to soil macroorganisms except of arthropods

Acute earthworm toxicity

evaluation

none

**Chronical earthworm toxicity (reproduction)** 

evaluation

none

Toxicity to terrestrial arthropods

Insect toxicity

evaluation

none

**Toxicity to terrestrial plants** 

Acute plant toxicity



**MASTAZYME** Cardiolipin conjugate

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

#### evaluation

none

#### Chronic plant toxicity

evaluation

none

## **Toxicity to birds**

## Acute and subchronic bird toxicity

evaluation

none

# Bird reproduction toxicity

evaluation

none

## Additional ecotoxicological information

#### **General information**

none

# 12.2 Persistence and degradability

#### Assessment/classification

The substance meets the criteria of ready degradability as defined in Regulation (EC) No 1272/2008.

# 12.3 Bioaccumulative potential

#### Assessment/classification

not applicable

#### 12.4 Mobility in soil

# Assessment/classification

No data available

#### 12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

# 12.6 Endocrine disrupting properties

remark

No data available

## 12.7 Other adverse effects

No information available.

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

# **Directive 2008/98/EC (Waste Framework Directive)**

# Before intended use

Waste code product 180100

hazardous waste No

Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code product 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

# After intended use

Waste code packaging 180100

hazardous waste No



**MASTAZYME** Cardiolipin conjugate

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

#### Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code packaging 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

# **SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	not applicable	not applicable	not applicable
14.2 Proper Shipping Name	not applicable	not applicable	not applicable
14.3 Class(es)	not applicable	not applicable	not applicable
14.4 Packing group	not applicable	not applicable	not applicable
14.5 Environmental hazards	not applicable	not applicable	not applicable
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Maritime transport in bulk according to IMO instruments	not applicable	not applicable	not applicable

## **Additional information**

#### All transport carriers

No dangerous good in sense of these transport regulations.

# **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU legislation

## Authorisations and/or restrictions on use

authorisations

none

restrictions on use

none

# 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## **SECTION 16: Other information**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP] See SECTION 2.1 (classification).

#### Indication of changes

not relevant

## **Additional information**

not relevant

## Relevant R-, H- and EUH-phrases (Number and full text)

none

## Training advice



**MASTAZYME** autoimmune substrate TMB

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name/designation MASTAZYME autoimmune substrate TMB

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

#### Relevant identified uses

#### remark

The product is intended for professional use.

# Sector of uses [SU]

SU20 Health services

# 1.3 Details of the supplier of the safety data sheet

#### Manufacturer

Mast Diagnostica GmbH

Feldstraße 20

Deutschland-23858 Reinfeld Telephone: +49 4533 20 07 00 Telefax: +49 4533 2007 68

E-mail: mast@mast-diagnostica.de

www.mast-group.com

## 1.4 Emergency telephone number

Only available during office hours.

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

#### **Additional information**

The mixture is not classified as hazardous according to Regulation (EC) No 1272/2008 [CLP].

# Classification according to Regulation (EC) No 1272/2008 [CLP]

#### health hazards

hazard statements for health hazards

none

# Physical hazards

hazard statements for physical hazards

none

#### **Environmental hazards**

none

## Additional hazards

none

## Specific concentration limit (SCL)

Hazard classes and hazard categories

none

## 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

## Signal word

none

#### **Hazard statements**

Hazard statements for physical hazards

none

## hazard statements for health hazards



**MASTAZYME** autoimmune substrate TMB

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

Hazard statements for environmental hazards

none

Hazard statements for additional hazards

none

**Precautionary statements** 

General:

none

Prevention

none

Response:

none

Storage:

none

Disposal:

none

Supplemental hazard information

Physical properties

none

health hazard properties

none

**Environmental properties** 

none

Other labelling

Standard phrases for special risks for humans or the environment

none

Labelling for contents according to regulation (EC) No. 648/2004

none

Standard phrases for safety precautions for the protection of humans or the environment

General provisions

none

Safety precautions for operators (SPo)

none

Safety precautions related to the environment (SPe)

none

Safety precautions related to good agricultural practice (SPa)

none

Specific safety precautions for rodenticides (SPr)

none

Standard phrases for special risks for humans or the environment

Special risks related to humans (RSh):

none

Special risks related to the environment (RSe):

none

#### 2.3 Other hazards

#### Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.



**MASTAZYME** autoimmune substrate TMB

Print date 11.10.2024
Revision date 05.01.2024

Version 1.0

## Adverse human health effects and symptoms

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

#### Adverse physicochemical effects

none

#### Other adverse effects

none

#### Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

# **SECTION 3: Composition / information on ingredients**

#### 3.1/3.2 Substances/Mixtures

## **Description**

Das Gemisch enthält keine gefährlichen Inhaltsstoffe (gemäß Verdordnung (EG) Nr. 1907/2006 (REACH)).

## **Hazardous ingredients**

2-Pyrrolidon

1 - <3 %

CAS 210-483-1

REACHNo 01-2119475471-37 Repr. 1B, H360 / Eye Irrit. 2, H319

# SECTION 4: First aid measures

# 4.1 Description of first aid measures

#### **General information**

No special First Aid measures are required.

#### Following skin contact

Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleansing agent and water.

#### After eve contact

Rinse immediately carefully and thoroughly with eye-bath or water.

## Following ingestion

Rinse mouth thoroughly with water.

## Self-protection of the first aider

none

## 4.2 Most important symptoms and effects, both acute and delayed

## **Effects**

No data available

#### **Symptoms**

No data available

# 4.3 Indication of any immediate medical attention and special treatment needed

#### Notes for the doctor

none

## Special treatment

none

# **SECTION 5: Firefighting measures**

#### **Additional information**

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

## 5.1 Extinguishing media

# Suitable extinguishing media

Carbon dioxide (CO2)



**MASTAZYME** autoimmune substrate TMB

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

Foam

Dry extinguishing powder

# Unsuitable extinguishing media

Full water jet

# 5.2 Special hazards arising from the substance or mixture

# **Hazardous combustion products**

Carbon monoxide Carbon dioxide (CO2)

# 5.3 Advice for firefighters

No data available

#### **SECTION 6: Accidental release measures**

#### **Additional information**

Absorb and remove liquid with absorbent material. Clean the affected surface with standard cleaning agents.

# 6.1 Personal precautions, protective equipment and emergency procedures

# For non-emergency personnel

# **Personal precautions**

none

#### **Protective equipment**

Persöhnliche Schutzausrüstung verwenden.

## For emergency responders

# Personal protection equipment

Vorgeschriebene persöhnliche Schutzausrüstung verwenden.

#### 6.2 Environmental precautions

Dilute with water.

# 6.3 Methods and material for containment and cleaning up

#### For containment

## Suitable material for taking up

Commercially available materials are sufficient.

# For cleaning up

# Suitable material for diluting or neutralizing

Water

#### 6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

## Advices on general occupational hygiene

Provide eye shower and label its location conspicuously

#### **Protective measures**

#### Advices on safe handling

No special technical protective measures are necessary.

## Measures to prevent fire

No special fire protection measures are necessary.

## **Environmental precautions**

No special technical protective measures are necessary.



**MASTAZYME** autoimmune substrate TMB

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

# 7.2 Conditions for safe storage, including any incompatibilities

## Technical measures and storage conditions

Storage conditions are listed on the labels. Additional information concerning the storage are given in the instructions for use.

## Hints on joint storage

#### Materials to avoid

none

# Further information on storage conditions

Storage class according to TRGS 510: 10 (Flammable liquids that cannot be assigned to any of the aforementioned LGK)

## storage temperature

Value >=2 - <=8 °C

## 7.3 Specific end use(s)

#### Recommendation

Observe instructions for use.

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

## Exposure limits at intended use

# biological limit values

#### remark

No data available

## Occupational exposure limit values

Substance name Butan-1,4-diol

CAS No. 110-63-4

long-term occupational exposure limit value 50 ppm

#### source

**TRGS 900** 

Substance name Dimethylsulfoxid (DMSO)

CAS No. 67-68-5

long-term occupational exposure limit value 50 ppm

#### source

**TRGS 900** 

Substance name Zitronensäure

CAS No. 77-92-9

long-term occupational exposure limit value 2 mg/m³

#### source

**TRGS 900** 

## **DNEL-/PNEC-values**

# **DMEL** worker

Substance name 2-Pyrrolidon

#### type

Long-term - inhalation, systemic effects

## remark

29,62 mg/m<sup>3</sup>

Substance name 2-Pyrrolidon

#### type

Long-term - dermal, systemic effects

#### remark

4,2 mg/kg KG/d



**MASTAZYME** autoimmune substrate TMB

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

#### **PNEC**

Value 0,5 mg/L

PNEC type

aquatic, freshwater

Value 0,05 mg/L

**PNEC** type

aquatic, marine water

Value 0,4205 mg/kg

PNEC type

sediment, freshwater

Value 10 mg/L

**PNEC** type

sewage treatment plant

Value 0,0612 mg/kg

PNEC type soil

#### 8.2 Exposure controls

## Appropriate engineering controls

#### remark

See section 7. No additional measures necessary.

# Personal protection equipment

# Eye/face protection

# Suitable eye protection

Eye glasses

Eye glasses with side protection

# Skin protection

# Suitable gloves type

Disposable gloves

# Suitable material

NBR (Nitrile rubber)

Required properties:

Dicke des Handschuhmaterials >= 0.1 mm

Durchbruchszeit > 480 min

## **Body protection**

## Suitable protective clothing

lab coat

## **Respiratory protection**

none

# **Environmental exposure controls**

#### remark

See section 7. No additional measures necessary.

#### Consumer exposure controls

Measures related to consumer uses of the substance (as such or in preparations).

not relevant

# Measures related to the service life of the substance in articles

not relevant



**MASTAZYME** autoimmune substrate TMB

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

# **Appearance**

# **Physical state**

liquid

# Colour

colourless

light yellow

# Odour

charakteristisch

# **Odour threshold**

not relevant

		parameter	Method - source - remark
Melting point/freezing point			No data available
Boiling point or initial boiling point and boiling range	100 °C		Berechnungsmethode
flammability			not relevant
Upper explosion limit			not relevant
lower explosion limit			not relevant
Flash point (°C)	120 °C		Berechneter Flammpunkt
Auto-ignition temperature			not relevant
Decomposition temperature			not relevant
рН	3,5 - 4	Temperature 20 °C	Experimentelle Daten
Kinematic viscosity			No data available
Water solubility			No data available
Soluble (g/L) in			not relevant
Fat solubility			No data available
Partition coefficient: n-octanol/water	-0,71		2-Pyrrolidon
Vapour pressure			No data available
Density and/or relative density			No data available
Relative vapour density			No data available
particle characteristics			not relevant
Dynamic viscosity			No data available
flow time			No data available



**MASTAZYME** autoimmune substrate TMB

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

parameter Method - source - remark

Thermal sensitivity

A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).

Sensitiveness to impact (J)

A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).

Sensitivity to friction (N)

A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the srructural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion).

Oxidising liquids

No data available

Oxidising solids

not relevant

Oxidising gas

not relevant

#### 9.2 Other information

## **Physical hazards**

# **Explosives**

## Justification for data waiving

The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.

## Flammable gases

## Justification for data waiving

not relevant

#### **Aerosols**

#### Justification for data waiving

Testing can be waived because substance is not an aerosol.



**MASTAZYME** autoimmune substrate TMB

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

## Oxidising gas

## Justification for data waiving

Testing can be waived because substance is a liquid.

## Gases under pressure

# Justification for data waiving

Testing can be waived because substance is a liquid.

## flammable liquids

# Justification for data waiving

not relevant

#### Flammable solids

## Justification for data waiving

Testing can be waived because substance is a liquid.

#### Self-reactive substances and mixtures

## Justification for data waiving

The classification procedures for self-reactive substances and mixtures need not be applied because there are no chemical groups present in the molecule associated with explosive or selfreactive properties.

# **Pyrophoric liquids**

## Justification for data waiving

The study does not need to be conducted because the substance is known to be stable at room temperature for prolonged periods of time (days).

# **Pyrophoric solids**

## Justification for data waiving

Testing can be waived because substance is a liquid.

#### self-heating substances and mixtures

## Justification for data waiving

not relevant

## Substances or mixtures which, in contact with water, emit flammable gases

#### Justification for data waiving

not relevant

#### Oxidising liquids

## Justification for data waiving

not relevant

## Oxidising solids

#### Justification for data waiving

Testing can be waived because substance is a liquid.

# Organic peroxides

## Justification for data waiving

Classification procedure not required, because the substance or the mixture is by definition not an organic peroxide.

#### Corrosive to metals

# Justification for data waiving

not relevant

# **Desensitised explosives**

# Justification for data waiving

No data available

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.



**MASTAZYME** autoimmune substrate TMB

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

#### 10.2 Chemical stability

No hazardous reaction when handled and stored according to provisions. Further information on storage conditions: see subsection 7.2.

# 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

#### 10.4 Conditions to avoid

Avoid high temperatures or direct sunlight.

## 10.5 Incompatible materials

Metalle

Oxidationsmittel

## 10.6 Hazardous decomposition products

Does not decompose when used for intended uses. No known hazardous decomposition products.

# **SECTION 11: Toxicological information**

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicokinetics, metabolism and distribution

## **Human toxicological data**

No data available

## Non-human toxikological data

#### remark

There are no data available on the preparation/mixture itself.

# **Acute toxicity**

## Acute dermal toxicity

ingredient 2-Pyrrolidon

Acute dermal toxicity >2000 mg/kg

## **Effective dose**

LD50:

#### Species:

Rabbit

#### source

Europäische Chemikalienagentur

## Acute oral toxicity

ingredient 2-Pyrrolidon

Acute oral toxicity >2000 mg/kg

## **Effective dose**

LD50:

## Species:

Rat

#### Method

**OECD 401** 

#### source

Europäische Chemikalienagentur

#### skin corrosion/irritation

#### Assessment/classification

No data available

# Respiratory or skin sensitisation

## Sensitisation to the respiratory tract

## Assessment/classification



**MASTAZYME** autoimmune substrate TMB

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

#### Skin sensitisation

## Assessment/classification

No data available

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

# Germ cell mutagenicity

# Human toxicological data

#### Result

not relevant

# In vitro mutagenicity/genotoxicity

## **Genetic endpoint**

not relevant

# In vivo mutagenicity/genotoxicity

#### Result / evaluation

not relevant

## Carcinogenicity

## Result / evaluation

No data available

# Reproductive toxicity

## Assessment/classification

No data available

# Adverse effects on sexual function and fertility

#### Result / evaluation

No data available

# Adverse effects on developmental toxicity

#### Result / evaluation

No data available

# Effects on or via lactation

#### Result

No data available

## STOT-single exposure

STOT SE 1 and 2

# Dermal specific target organ toxicity (single exposure)

#### remark

No data available

# Inhalative specific target organ toxicity (single exposure)

#### remark

No data available

## Oral specific target organ toxicity (single exposure)

## remark

No data available

## STOT SE 3

# Irritation to respiratory tract

## Assessment/classification



**MASTAZYME** autoimmune substrate TMB

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

#### STOT-repeated exposure

STOT RE 1 and 2

Dermal specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Inhalative specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

**Oral specific target organ toxicity (repeated exposure)** 

Assessment/classification

No data available

Repeated dose toxicity (subacute, subchronic, chronic)

Subacute oral toxicity

remark

No data available

Subacute dermal toxicity

Specific effects:

No data available

Subacute inhalation toxicity

Specific effects:

No data available

Subchronic dermal toxicity

Specific effects:

No data available

Subchronic inhalation toxicity

**Specific effects:** 

No data available

Chronic oral toxicity

Specific effects:

No data available

**Chronic dermal toxicity** 

Specific effects:

No data available

Chronic inhalation toxicity

Specific effects:

No data available

11.2 Information on other hazards

**Endocrine disrupting properties** 

remark

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**Phototoxicity** 

In vitro phototoxicity

evaluation

No data available

In vivo phototoxicity



**MASTAZYME** autoimmune substrate TMB

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

#### evaluation

No data available

# **SECTION 12: Ecological information**

12.1 Toxicity

**Aquatic toxicity** 

Acute (short-term) fish toxicity

ingredient 2-Pyrrolidon

Acute (short-term) fish toxicity 10000 mg/L

**Effective dose** 

LC50:

Test duration 96 h

species

Danio rerio (zebrafish)

remark

Quelle: Europäische Chemikalienagentur

# Acute (short-term) toxicity to crustacea

ingredient 2-Pyrrolidon

Acute (short-term) toxicity to crustacea >500 mg/L

**Effective dose** 

FC50

Test duration 48 h

species

Daphnia magna (Big water flea)

remark

Quelle: Europäische Chemikalienagentur

#### Chronic (long-term) toxicity to aquatic invertebrate

remark

none

# Chronic (long-term) fish toxicity

Result / evaluation

none

## Chronic (long-term) toxicity to aquatic algae and cyanobacteria

ingredient 2-Pyrrolidon

Chronic (long-term) toxicity to aquatic algae and cyanobacteria >500 mg/L

**Effective dose** 

ErC50

Test duration 72 h

species

Desmodesmus subspicatus

source

Europäische Chemikalienagentur

## Toxicity to other aquatic plants/organisms

Result / evaluation

none

# Toxicity to microorganisms

Result / evaluation



**MASTAZYME** autoimmune substrate TMB

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

## **Terrestrial toxicity**

Effects on soil microorganisms

evaluation

none

Toxicity to soil macroorganisms except of arthropods

Acute earthworm toxicity

evaluation

none

**Chronical earthworm toxicity (reproduction)** 

evaluation

none

Toxicity to terrestrial arthropods

Insect toxicity

evaluation

none

**Toxicity to terrestrial plants** 

Acute plant toxicity

evaluation

none

Chronic plant toxicity

evaluation

none

**Toxicity to birds** 

Acute and subchronic bird toxicity

evaluation

none

Bird reproduction toxicity

evaluation

none

Additional ecotoxicological information

**General information** 

none

12.2 Persistence and degradability

Assessment/classification

The substance meets the criteria of ready degradability as defined in Regulation (EC) No 1272/2008.

12.3 Bioaccumulative potential

Assessment/classification

not applicable

12.4 Mobility in soil

Assessment/classification

No data available

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

remark



**MASTAZYME** autoimmune substrate TMB

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

#### 12.7 Other adverse effects

No information available.

#### **SECTION 13: Disposal considerations**

# 13.1 Waste treatment methods

**Directive 2008/98/EC (Waste Framework Directive)** 

## Before intended use

Waste code product 180100

hazardous waste No

Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code product 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

#### After intended use

Waste code packaging 180100

hazardous waste No

Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code packaging 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

## **SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	not applicable	not applicable	not applicable
14.2 Proper Shipping Name	not applicable	not applicable	not applicable
14.3 Class(es)	not applicable	not applicable	not applicable
14.4 Packing group	not applicable	not applicable	not applicable
14.5 Environmental hazards	not applicable	not applicable	not applicable
14.6 Special precautions for use	er not applicable	not applicable	not applicable
14.7 Maritime transport in bulk according to IMO instruments	not applicable	not applicable	not applicable

# Additional information

#### All transport carriers

No dangerous good in sense of these transport regulations.

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU legislation

Authorisations and/or restrictions on use

authorisations



**MASTAZYME** autoimmune substrate TMB

Print date 11.10.2024 Revision date 05.01.2024

Version 1.0

#### restrictions on use

none

# 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

# **SECTION 16: Other information**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP] See SECTION 2.1 (classification).

# Indication of changes

not relevant

## **Additional information**

not relevant

# Relevant R-, H- and EUH-phrases (Number and full text)

none

# **Training advice**



**MASTAZYME** stopping solution 0.25 M

Print date 16.10.2024 Revision date 05.01.2024

Version 1.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name/designation MASTAZYME stopping solution 0.25 M

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

#### Relevant identified uses

#### remark

The product is intended for professional use.

# Sector of uses [SU]

SU20 Health services

# 1.3 Details of the supplier of the safety data sheet

#### Manufacturer

Mast Diagnostica GmbH

Feldstraße 20

Deutschland-23858 Reinfeld Telephone: +49 4533 20 07 00 Telefax: +49 4533 2007 68

E-mail: mast@mast-diagnostica.de

www.mast-group.com

## 1.4 Emergency telephone number

Only available during office hours.

## **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

#### **Additional information**

The mixture is not classified as hazardous according to Regulation (EC) No 1272/2008 [CLP].

# Classification according to Regulation (EC) No 1272/2008 [CLP]

#### health hazards

hazard statements for health hazards

none

## **Physical hazards**

hazard statements for physical hazards

none

#### **Environmental hazards**

none

# Additional hazards

none

#### 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

## Signal word

none

#### **Hazard statements**

Hazard statements for physical hazards

none

#### hazard statements for health hazards

none

# Hazard statements for environmental hazards



**MASTAZYME** stopping solution 0.25 M

Print date 16.10.2024 Revision date 05.01.2024

Version 1.0

#### Hazard statements for additional hazards

none

## **Precautionary statements**

General:

none

Prevention

none

Response:

none

Storage:

none

Disposal:

none

#### Supplemental hazard information

Physical properties

none

health hazard properties

none

**Environmental properties** 

none

## Other labelling

Standard phrases for special risks for humans or the environment

none

Labelling for contents according to regulation (EC) No. 648/2004

none

## Standard phrases for safety precautions for the protection of humans or the environment

#### General provisions

none

Safety precautions for operators (SPo)

none

Safety precautions related to the environment (SPe)

none

Safety precautions related to good agricultural practice (SPa)

none

Specific safety precautions for rodenticides (SPr)

none

## Standard phrases for special risks for humans or the environment

Special risks related to humans (RSh):

none

Special risks related to the environment (RSe):

none

#### 2.3 Other hazards

#### Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

# Adverse human health effects and symptoms

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.



**MASTAZYME** stopping solution 0.25 M

Print date 16.10.2024
Revision date 05.01.2024

Version 1.0

#### Adverse physicochemical effects

none

## Other adverse effects

none

#### Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

# **SECTION 3: Composition / information on ingredients**

#### 3.1/3.2 Substances/Mixtures

#### Hazardous ingredients

sulphuric acid ... %
CAS 7664-93-9
EC 231-639-5
INDEX 016-020-00-8
Skin Corr. 1A, H314

<=1,4 %

#### **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

#### **General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Change contaminated, saturated clothing.

## Following skin contact

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

#### After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

#### Following ingestion

Rinse mouth thoroughly with water. Let 1 glass of water be drunken in little sips (dilution effect). Do not induce vomiting.

# Self-protection of the first aider

First aider: Pay attention to self-protection!

## 4.2 Most important symptoms and effects, both acute and delayed

## If decomposition products are inhaled the following symptoms can occur

Vomiting

Headache

Gastrointestinal complaints

Sweating

Nausea

## **Effects**

Nausea

Gastrointestinal complaints

## **Symptoms**

Headache

Gastrointestinal complaints

Nausea

## 4.3 Indication of any immediate medical attention and special treatment needed

#### Notes for the doctor

Recovery usually happens spontaneously. Treat symptomatically.

# **Special treatment**



**MASTAZYME** stopping solution 0.25 M

Print date 16.10.2024 Revision date 05.01.2024

Version 1.0

## **SECTION 5: Firefighting measures**

#### **Additional information**

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

# 5.1 Extinguishing media

## Suitable extinguishing media

Water

Sand

Carbon dioxide (CO2)

Extinguishing powder

## Unsuitable extinguishing media

none

# 5.2 Special hazards arising from the substance or mixture

## **Hazardous combustion products**

none

## 5.3 Advice for firefighters

# Special protective equipment for firefighters

Rubber boots

rubber gloves. protective clothing.

#### **SECTION 6: Accidental release measures**

#### **Additional information**

Absorb and remove liquid with absorbent material. Clean the affected surface with standard cleaning agents.

# 6.1 Personal precautions, protective equipment and emergency procedures

## For non-emergency personnel

## **Emergency procedures**

Provide adequate ventilation. Remove persons to safety.

## **Personal precautions**

Use personal protection equipment.

# **Protective equipment**

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

## For emergency responders

#### Personal protection equipment

none

#### 6.2 Environmental precautions

none

# 6.3 Methods and material for containment and cleaning up

#### For containment

#### Suitable material for taking up

Commercially available materials are sufficient.

# For cleaning up

## Suitable material for diluting or neutralizing

Water

# 6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13



**MASTAZYME** stopping solution 0.25 M

Print date 16.10.2024 Revision date 05.01.2024

Version 1.0

## **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

# Advices on general occupational hygiene

Provide eye shower and label its location conspicuously

#### **Protective measures**

## Advices on safe handling

No special technical protective measures are necessary.

# Measures to prevent fire

No special fire protection measures are necessary.

# **Environmental precautions**

No special technical protective measures are necessary.

## 7.2 Conditions for safe storage, including any incompatibilities

## Technical measures and storage conditions

Storage conditions are listed on the labels. Additional information concerning the storage are given in the instructions for use.

## Hints on joint storage

#### Materials to avoid

none

## Further information on storage conditions

Protect against:

UV-radiation/sunlight

Temperatures outside the listed range.

## storage temperature

**Value** >=2 - <=8 °C

#### 7.3 Specific end use(s)

# Recommendation

Observe instructions for use.

# **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

## Exposure limits at intended use

# biological limit values

## remark

No data available

#### 8.2 Exposure controls

# Appropriate engineering controls

## remark

See section 7. No additional measures necessary.

# Personal protection equipment

Eye/face protection

## Suitable eye protection

Eye glasses

Eye glasses with side protection

## Skin protection

# Suitable gloves type

Disposable gloves



**MASTAZYME** stopping solution 0.25 M

Print date 16.10.2024 Revision date 05.01.2024 Version 1.0

# Suitable material

NBR (Nitrile rubber)

# **Body protection**

# Suitable protective clothing

lab coat

# Unsuitable protective clothing

No data available

## Required properties

No data available

## **Recommended material**

Natural fibres (e.g. cotton) heat-resistant synthetic fibres

## Respiratory protection

none

# **Environmental exposure controls**

## remark

See section 7. No additional measures necessary.

# **Consumer exposure controls**

Measures related to consumer uses of the substance (as such or in preparations).

not relevant

## Measures related to the service life of the substance in articles

not relevant

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

# **Appearance**

# **Physical state**

liquid

#### Colour

colourless

#### Odour

odourless

# **Odour threshold**

not relevant

	parameter	Method - source - remark
Melting point/freezing point		No data available
Boiling point or initial boiling point and boiling range		No data available
flammability		not relevant
Upper explosion limit		not relevant
lower explosion limit		not relevant
Flash point (°C)		not relevant
Auto-ignition temperature		not relevant
Decomposition temperature		not relevant



MASTAZYME stopping solution 0.25 M

Print date 16.10.2024 Revision date 05.01.2024 Version 1.0

parameter Method - source - remark No data available pΗ Kinematic viscosity No data available Water solubility No data available Soluble (g/L) in not relevant Fat solubility No data available Partition coefficient: n-octanol/water No data available Vapour pressure No data available Density and/or relative density No data available Relative vapour density No data available particle characteristics not relevant Dynamic viscosity No data available No data available flow time Thermal sensitivity A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the srructural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion). Sensitiveness to impact (J) A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the srructural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion). Sensitivity to friction (N) A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the srructural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion). Oxidising liquids No data available



**MASTAZYME** stopping solution 0.25 M

Print date 16.10.2024 Revision date 05.01.2024

Version 1.0

	parameter	Method - source - remark
Oxidising solids		not relevant
Oxidising gas		not relevant

#### 9.2 Other information

#### Physical hazards

## **Explosives**

## Justification for data waiving

The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.

## Flammable gases

## Justification for data waiving

not relevant

#### **Aerosols**

# Justification for data waiving

Testing can be waived because substance is not an aerosol.

# Oxidising gas

# Justification for data waiving

Testing can be waived because substance is a liquid.

## Gases under pressure

#### Justification for data waiving

Testing can be waived because substance is a liquid.

#### flammable liquids

## Justification for data waiving

not relevant

#### Flammable solids

## Justification for data waiving

Testing can be waived because substance is a liquid.

# Self-reactive substances and mixtures

## Justification for data waiving

The classification procedures for self-reactive substances and mixtures need not be applied because there are no chemical groups present in the molecule associated with explosive or selfreactive properties.

## **Pyrophoric liquids**

#### Justification for data waiving

The study does not need to be conducted because the substance is known to be stable at room temperature for prolonged periods of time (days).

# **Pyrophoric solids**

## Justification for data waiving

Testing can be waived because substance is a liquid.

## self-heating substances and mixtures

## Justification for data waiving

not relevant

# Substances or mixtures which, in contact with water, emit flammable gases

#### Justification for data waiving

not relevant



**MASTAZYME** stopping solution 0.25 M

Print date 16.10.2024 Revision date 05.01.2024

Version 1.0

## **Oxidising liquids**

## Justification for data waiving

not relevant

# Oxidising solids

# Justification for data waiving

Testing can be waived because substance is a liquid.

## Organic peroxides

## Justification for data waiving

Classification procedure not required, because the substance or the mixture is by definition not an organic peroxide.

#### Corrosive to metals

## Justification for data waiving

not relevant

## **Desensitised explosives**

# Justification for data waiving

No data available

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

## 10.2 Chemical stability

No hazardous reaction when handled and stored according to provisions. Further information on storage conditions: see subsection 7.2.

## 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

## 10.4 Conditions to avoid

Further information on storage conditions: see subsection 7.2.

#### 10.5 Incompatible materials

No further relevant information available.

## 10.6 Hazardous decomposition products

Does not decompose when used for intended uses. No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

#### **Additional information**

Toxicological data are not available.

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

## Toxicokinetics, metabolism and distribution

#### Human toxicological data

No data available

## Non-human toxikological data

#### remark

There are no data available on the preparation/mixture itself.

#### skin corrosion/irritation

#### Assessment/classification

No data available

# Respiratory or skin sensitisation

# Sensitisation to the respiratory tract

## Assessment/classification



**MASTAZYME** stopping solution 0.25 M

Print date 16.10.2024 Revision date 05.01.2024

Version 1.0

#### Skin sensitisation

## Assessment/classification

No data available

# CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

# Germ cell mutagenicity

# Human toxicological data

#### Result

not relevant

# In vitro mutagenicity/genotoxicity

## **Genetic endpoint**

not relevant

# In vivo mutagenicity/genotoxicity

#### Result / evaluation

not relevant

# Carcinogenicity

# Result / evaluation

No data available

# Reproductive toxicity

## Assessment/classification

No data available

## Adverse effects on sexual function and fertility

#### Result / evaluation

No data available

# Adverse effects on developmental toxicity

#### Result / evaluation

No data available

# Effects on or via lactation

#### Result

No data available

## STOT-single exposure

STOT SE 1 and 2

# Dermal specific target organ toxicity (single exposure)

#### remark

No data available

# Inhalative specific target organ toxicity (single exposure)

#### remark

No data available

## Oral specific target organ toxicity (single exposure)

# remark

No data available

## STOT SE 3

# Irritation to respiratory tract

## Assessment/classification



**MASTAZYME** stopping solution 0.25 M

Print date 16.10.2024 Revision date 05.01.2024

Version 1.0

#### **STOT-repeated exposure**

STOT RE 1 and 2

Dermal specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

Inhalative specific target organ toxicity (repeated exposure)

Assessment/classification

No data available

**Oral specific target organ toxicity (repeated exposure)** 

Assessment/classification

No data available

Repeated dose toxicity (subacute, subchronic, chronic)

Subacute oral toxicity

remark

No data available

Subacute dermal toxicity

Specific effects:

No data available

Subacute inhalation toxicity

Specific effects:

No data available

Subchronic dermal toxicity

**Specific effects:** 

No data available

Subchronic inhalation toxicity

**Specific effects:** 

No data available

Chronic oral toxicity

Specific effects:

No data available

**Chronic dermal toxicity** 

Specific effects:

No data available

Chronic inhalation toxicity

Specific effects:

No data available

11.2 Information on other hazards

**Endocrine disrupting properties** 

remark

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**Phototoxicity** 

In vitro phototoxicity

evaluation

No data available

In vivo phototoxicity



**MASTAZYME** stopping solution 0.25 M

Print date 16.10.2024 Revision date 05.01.2024

Version 1.0

#### evaluation

No data available

## **SECTION 12: Ecological information**

12.1 Toxicity

**Aquatic toxicity** 

Acute (short-term) fish toxicity

Result / evaluation

none

Acute (short-term) toxicity to crustacea

Result / evaluation

none

Chronic (long-term) toxicity to aquatic invertebrate

remark

none

Chronic (long-term) fish toxicity

Result / evaluation

none

Chronic (long-term) toxicity to aquatic algae and cyanobacteria

remark

No data available

Toxicity to other aquatic plants/organisms

Result / evaluation

none

Toxicity to microorganisms

Result / evaluation

none

**Terrestrial toxicity** 

Effects on soil microorganisms

evaluation

none

Toxicity to soil macroorganisms except of arthropods

Acute earthworm toxicity

evaluation

none

**Chronical earthworm toxicity (reproduction)** 

evaluation

none

**Toxicity to terrestrial arthropods** 

Insect toxicity

evaluation

none

**Toxicity to terrestrial plants** 

Acute plant toxicity

evaluation

none

**Chronic plant toxicity** 



**MASTAZYME** stopping solution 0.25 M

Print date 16.10.2024 Revision date 05.01.2024

Version 1.0

#### evaluation

none

## **Toxicity to birds**

# Acute and subchronic bird toxicity

evaluation

none

## Bird reproduction toxicity

evaluation

none

# Additional ecotoxicological information

#### **General information**

none

#### 12.2 Persistence and degradability

No information available.

# 12.3 Bioaccumulative potential

# Assessment/classification

not applicable

#### 12.4 Mobility in soil

# Assessment/classification

No data available

## 12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

# 12.6 Endocrine disrupting properties

remark

No data available

# 12.7 Other adverse effects

No information available.

#### **SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods

# **Directive 2008/98/EC (Waste Framework Directive)**

# Before intended use

Waste code product 180100

hazardous waste No

#### Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code product 180107

hazardous waste No

#### Waste name

chemicals other than those mentioned in 18 01 06

# After intended use

Waste code packaging 180100

hazardous waste No

#### Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code packaging 180107

hazardous waste No



**MASTAZYME** stopping solution 0.25 M

Print date 16.10.2024 Revision date 05.01.2024

Version 1.0

#### Waste name

chemicals other than those mentioned in 18 01 06

## **SECTION 14: Transport information**

_		Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
	14.1 UN number or ID number	not applicable	not applicable	not applicable
	14.2 Proper Shipping Name	not applicable	not applicable	not applicable
	14.3 Class(es)	not applicable	not applicable	not applicable
	14.4 Packing group	not applicable	not applicable	not applicable
	14.5 Environmental hazards	not applicable	not applicable	not applicable
	14.6 Special precautions for user	not applicable	not applicable	not applicable
	14.7 Maritime transport in bulk according to IMO instruments	not applicable	not applicable	not applicable

## **Additional information**

## All transport carriers

No dangerous good in sense of these transport regulations.

# **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU legislation

# Authorisations and/or restrictions on use

#### authorisations

none

# restrictions on use

none

## 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

## **SECTION 16: Other information**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP] See SECTION 2.1 (classification).

#### Indication of changes

not relevant

## **Additional information**

not relevant

# Relevant R-, H- and EUH-phrases (Number and full text)

none

H317 May cause an allergic skin reaction.

H290 May be corrosive to metals.

#### Training advice



MASTAZYME AI-ELISA washing buffer

Print date 16.10.2024 Revision date 05.01.2024

Version 1.0

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name/designation MASTAZYME AI-ELISA washing buffer

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

#### Relevant identified uses

## remark

The product is intended for professional use.

# Sector of uses [SU]

SU20 Health services

# 1.3 Details of the supplier of the safety data sheet

#### Manufacturer

Mast Diagnostica GmbH

Feldstraße 20

Deutschland-23858 Reinfeld Telephone: +49 4533 20 07 00 Telefax: +49 4533 2007 68

E-mail: mast@mast-diagnostica.de

www.mast-group.com

## 1.4 Emergency telephone number

Only available during office hours.

#### **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

#### **Additional information**

The mixture is not classified as hazardous according to Regulation (EC) No 1272/2008 [CLP].

# Classification according to Regulation (EC) No 1272/2008 [CLP]

#### health hazards

hazard statements for health hazards

none

# **Physical hazards**

hazard statements for physical hazards

none

#### **Environmental hazards**

none

# Additional hazards

none

## Specific concentration limit (SCL)

Hazard classes and hazard categories

none

## 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

## Signal word

none

#### **Hazard statements**

Hazard statements for physical hazards

none

## hazard statements for health hazards



**MASTAZYME AI-ELISA washing buffer** 

Print date 16.10.2024 Revision date 05.01.2024

Version 1.0

Hazard statements for environmental hazards

none

Hazard statements for additional hazards

none

**Precautionary statements** 

General:

none

Prevention

none

Response:

none

Storage:

none

Disposal:

none

Supplemental hazard information

**Physical properties** 

none

health hazard properties

none

**Environmental properties** 

none

Other labelling

Standard phrases for special risks for humans or the environment

none

Labelling for contents according to regulation (EC) No. 648/2004

none

Standard phrases for safety precautions for the protection of humans or the environment

General provisions

none

Safety precautions for operators (SPo)

none

Safety precautions related to the environment (SPe)

none

Safety precautions related to good agricultural practice (SPa)

none

Specific safety precautions for rodenticides (SPr)

none

Standard phrases for special risks for humans or the environment

Special risks related to humans (RSh):

none

Special risks related to the environment (RSe):

none

#### 2.3 Other hazards

#### Adverse environmental effects

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.



MASTAZYME AI-ELISA washing buffer

Print date 16.10.2024 Revision date 05.01.2024

Version 1.0

## Adverse human health effects and symptoms

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

#### Adverse physicochemical effects

none

#### Other adverse effects

none

#### Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

# **SECTION 3: Composition / information on ingredients**

#### 3.1/3.2 Substances/Mixtures

## **Description**

none

**Hazardous ingredients** 

#### **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

#### **General information**

No special first aid measures are required.

#### Following skin contact

Remove mechanically (e.g. dab away using wadding or cellulose material) then thoroughly wash the affected skin with a mild cleansing agent and water.

#### After eye contact

Rinse immediately carefully and thoroughly with eye-bath or water.

## Following ingestion

Rinse mouth thoroughly with water. Let 1 glass of water be drunken in little sips (dilution effect).

# Self-protection of the first aider

none

## 4.2 Most important symptoms and effects, both acute and delayed

## **Effects**

none

#### **Symptoms**

none

# 4.3 Indication of any immediate medical attention and special treatment needed

#### Notes for the doctor

none

# **Special treatment**

none

# **SECTION 5: Firefighting measures**

## **Additional information**

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

# 5.1 Extinguishing media

## Suitable extinguishing media

Water

Sand

Carbon dioxide (CO2)

Extinguishing powder



MASTAZYME AI-ELISA washing buffer

Print date 16.10.2024 Revision date 05.01.2024

Version 1.0

#### Unsuitable extinguishing media

none

## 5.2 Special hazards arising from the substance or mixture

## **Hazardous combustion products**

none

## 5.3 Advice for firefighters

# Special protective equipment for firefighters

No special equipment or techniques are required.

#### **SECTION 6: Accidental release measures**

#### Additional information

Absorb and remove liquid with absorbent material. Clean the affected surface with standard cleaning agents.

## 6.1 Personal precautions, protective equipment and emergency procedures

# For non-emergency personnel

## Personal precautions

none

#### **Protective equipment**

none

# For emergency responders

## Personal protection equipment

none

#### 6.2 Environmental precautions

none

#### 6.3 Methods and material for containment and cleaning up

#### For containment

# Suitable material for taking up

Commercially available materials are sufficient.

## For cleaning up

# Suitable material for diluting or neutralizing

Water

# 6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

## Advices on general occupational hygiene

Provide eye shower and label its location conspicuously

#### **Protective measures**

#### Advices on safe handling

No special technical protective measures are necessary.

#### Measures to prevent fire

No special fire protection measures are necessary.

## **Environmental precautions**

No special technical protective measures are necessary.



MASTAZYME AI-ELISA washing buffer

Print date 16.10.2024 Revision date 05.01.2024

Version 1.0

# 7.2 Conditions for safe storage, including any incompatibilities

## Technical measures and storage conditions

Storage conditions are listed on the labels. Additional information concerning the storage are given in the instructions for use.

#### Hints on joint storage

# Materials to avoid

none

# Further information on storage conditions

Protect against:

UV-radiation/sunlight

Temperatures outside the listed range.

## storage temperature

**Value** >=2 - <=8 °C

## 7.3 Specific end use(s)

#### Recommendation

Observe instructions for use.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Exposure limits at intended use

## biological limit values

#### remark

No data available

# **DNEL-/PNEC-values**

## **DNEL Consumer**

## type

local

# source

Deutschland. MAK- und BAT Anhang IIa

Value 0,02 mg/m<sup>3</sup>

## 8.2 Exposure controls

# Appropriate engineering controls

#### remark

See section 7. No additional measures necessary.

# Personal protection equipment

# Eye/face protection

# Suitable eye protection

Eye glasses

Eye glasses with side protection

# Skin protection

## Suitable gloves type

Disposable gloves

# Suitable material

NBR (Nitrile rubber)

## **Body protection**

# Suitable protective clothing

lab coat



MASTAZYME AI-ELISA washing buffer

Print date 16.10.2024 Revision date 05.01.2024

Version 1.0

# **Respiratory protection**

none

## **Environmental exposure controls**

remark

See section 7. No additional measures necessary.

**Consumer exposure controls** 

Measures related to consumer uses of the substance (as such or in preparations).

not relevant

Measures related to the service life of the substance in articles

not relevant

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

**Appearance** 

**Physical state** 

liquid

Colour

colourless

Odour

odourless

# **Odour threshold**

not relevant

	parameter	Method - source - remark
Melting point/freezing point		No data available
Boiling point or initial boiling point and boiling range		No data available
flammability		not relevant
Upper explosion limit		not relevant
lower explosion limit		not relevant
Flash point (°C)		not relevant
Auto-ignition temperature		not relevant
Decomposition temperature		not relevant
рН		No data available
Kinematic viscosity		No data available
Water solubility		No data available
Soluble (g/L) in		not relevant
Fat solubility		No data available
Partition coefficient: n-octanol/water		No data available
Vapour pressure		No data available
Density and/or relative density		No data available
Relative vapour density		No data available



MASTAZYME AI-ELISA washing buffer

Print date 16.10.2024 Revision date 05.01.2024

Method - source - remark

Version 1.0

particle characteristics not relevant Dynamic viscosity No data available No data available flow time A.14: The tests need not be Thermal sensitivity performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactivé groups in the srructural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion). Sensitiveness to impact (J) A.14: The tests need not be performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the srructural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of explosion). Sensitivity to friction (N) A.14: The tests need not be performed when available thermodynamic information (e.g.

parameter

performed when available thermodynamic information (e.g. heat of formation, heat of decomposition) and/ or absence of certain reactive groups in the structural formula establishes beyond reasonable doubt that the substance is incapable of rapid decomposition with evolution of gases or release of heat (i.e. the material does not present any risk of

explosion).

No data available

not relevant

not relevant

Oxidising liquids
Oxidising solids

Oxidising gas

#### 9.2 Other information

## Physical hazards

# **Explosives**

# Justification for data waiving

The study does not need to be conducted because there are no chemical groups associated with explosive properties present in the molecule.

## Flammable gases

## Justification for data waiving

not relevant



**MASTAZYME AI-ELISA washing buffer** 

Print date 16.10.2024 Revision date 05.01.2024

Version 1.0

#### **Aerosols**

## Justification for data waiving

Testing can be waived because substance is not an aerosol.

## Oxidising gas

# Justification for data waiving

Testing can be waived because substance is a liquid.

## Gases under pressure

## Justification for data waiving

Testing can be waived because substance is a liquid.

## flammable liquids

## Justification for data waiving

not relevant

#### Flammable solids

## Justification for data waiving

Testing can be waived because substance is a liquid.

#### Self-reactive substances and mixtures

#### Justification for data waiving

The classification procedures for self-reactive substances and mixtures need not be applied because there are no chemical groups present in the molecule associated with explosive or selfreactive properties.

# **Pyrophoric liquids**

## Justification for data waiving

The study does not need to be conducted because the substance is known to be stable at room temperature for prolonged periods of time (days).

#### Pyrophoric solids

## Justification for data waiving

Testing can be waived because substance is a liquid.

#### self-heating substances and mixtures

# Justification for data waiving

not relevant

## Substances or mixtures which, in contact with water, emit flammable gases

## Justification for data waiving

not relevant

## **Oxidising liquids**

## Justification for data waiving

not relevant

## Oxidising solids

## Justification for data waiving

Testing can be waived because substance is a liquid.

## Organic peroxides

# Justification for data waiving

Classification procedure not required, because the substance or the mixture is by definition not an organic peroxide.

#### Corrosive to metals

## Justification for data waiving

not relevant

#### **Desensitised explosives**

# Justification for data waiving



**MASTAZYME AI-ELISA washing buffer** 

Print date 16.10.2024 Revision date 05.01.2024

Version 1.0

## **SECTION 10: Stability and reactivity**

## 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

# 10.2 Chemical stability

No hazardous reaction when handled and stored according to provisions. Further information on storage conditions: see subsection 7.2.

## 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

## 10.4 Conditions to avoid

Further information on storage conditions: see subsection 7.2.

## 10.5 Incompatible materials

No further relevant information available.

# 10.6 Hazardous decomposition products

Does not decompose when used for intended uses. No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

#### **Additional information**

Toxicological data are not available.

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

## Toxicokinetics, metabolism and distribution

# Human toxicological data

No data available

## Non-human toxikological data

#### remark

There are no data available on the preparation/mixture itself.

#### Acute toxicity

# Acute dermal toxicity

#### remark

none

## Acute inhalation toxicity (vapour)

#### remark

none

## Acute oral toxicity

## remark

none

#### skin corrosion/irritation

#### Assessment/classification

No data available

#### Respiratory or skin sensitisation

## Sensitisation to the respiratory tract

## Assessment/classification

No data available

#### Skin sensitisation

# Assessment/classification



MASTAZYME AI-ELISA washing buffer

Print date 16.10.2024 Revision date 05.01.2024

Version 1.0

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity

Human toxicological data

Result

not relevant

In vitro mutagenicity/genotoxicity

**Genetic endpoint** 

not relevant

In vivo mutagenicity/genotoxicity

Result / evaluation

not relevant

Carcinogenicity

Result / evaluation

No data available

Reproductive toxicity

Assessment/classification

No data available

Adverse effects on sexual function and fertility

Result / evaluation

No data available

Adverse effects on developmental toxicity

Result / evaluation

No data available

Effects on or via lactation

Result

No data available

STOT-single exposure

STOT SE 1 and 2

Dermal specific target organ toxicity (single exposure)

remark

No data available

Inhalative specific target organ toxicity (single exposure)

remark

No data available

Oral specific target organ toxicity (single exposure)

remark

No data available

STOT SE 3

Irritation to respiratory tract

Assessment/classification

No data available

STOT-repeated exposure

STOT RE 1 and 2

Dermal specific target organ toxicity (repeated exposure)

Assessment/classification



**MASTAZYME AI-ELISA washing buffer** 

Print date 16.10.2024 Revision date 05.01.2024

Version 1.0

# Inhalative specific target organ toxicity (repeated exposure)

## Assessment/classification

No data available

# Oral specific target organ toxicity (repeated exposure)

#### Assessment/classification

No data available

## Repeated dose toxicity (subacute, subchronic, chronic)

# Subacute oral toxicity

remark

No data available

# Subacute dermal toxicity

# Specific effects:

No data available

## Subacute inhalation toxicity

# Specific effects:

No data available

## Subchronic dermal toxicity

# Specific effects:

No data available

## Subchronic inhalation toxicity

## Specific effects:

No data available

# Chronic oral toxicity

## **Specific effects:**

No data available

## **Chronic dermal toxicity**

# Specific effects:

No data available

## **Chronic inhalation toxicity**

## Specific effects:

No data available

#### 11.2 Information on other hazards

# **Endocrine disrupting properties**

#### remark

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

## **Phototoxicity**

## In vitro phototoxicity

## evaluation

No data available

## In vivo phototoxicity

## evaluation



MASTAZYME AI-ELISA washing buffer

Print date 16.10.2024 Revision date 05.01.2024

Version 1.0

# **SECTION 12: Ecological information**

12.1 Toxicity

**Aquatic toxicity** 

Acute (short-term) fish toxicity

Result / evaluation

none

Acute (short-term) toxicity to crustacea

Result / evaluation

none

Chronic (long-term) toxicity to aquatic invertebrate

remark

none

Chronic (long-term) fish toxicity

Result / evaluation

none

Chronic (long-term) toxicity to aquatic algae and cyanobacteria

remark

No data available

Toxicity to other aquatic plants/organisms

Result / evaluation

none

Toxicity to microorganisms

Result / evaluation

none

**Terrestrial toxicity** 

Effects on soil microorganisms

evaluation

none

Toxicity to soil macroorganisms except of arthropods

Acute earthworm toxicity

evaluation

none

**Chronical earthworm toxicity (reproduction)** 

evaluation

none

Toxicity to terrestrial arthropods

Insect toxicity

evaluation

none

**Toxicity to terrestrial plants** 

Acute plant toxicity

evaluation

none

Chronic plant toxicity

evaluation



MASTAZYME AI-ELISA washing buffer

Print date 16.10.2024 Revision date 05.01.2024

Version 1.0

## **Toxicity to birds**

Acute and subchronic bird toxicity

evaluation

none

Bird reproduction toxicity

evaluation

none

Additional ecotoxicological information

**General information** 

none

12.2 Persistence and degradability

Assessment/classification

The substance meets the criteria of ready degradability as defined in Regulation (EC) No 1272/2008.

12.3 Bioaccumulative potential

Assessment/classification

not applicable

12.4 Mobility in soil

Assessment/classification

No data available

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6 Endocrine disrupting properties

remark

No data available

12.7 Other adverse effects

No information available.

## **SECTION 13: Disposal considerations**

13.1 Waste treatment methods

**Directive 2008/98/EC (Waste Framework Directive)** 

Before intended use

Waste code product 180100

hazardous waste No

Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code product 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06

After intended use

Waste code packaging 180100

hazardous waste No

Waste name

wastes from natal care, diagnosis, treatment or prevention of disease in humans

Waste code packaging 180107

hazardous waste No

Waste name

chemicals other than those mentioned in 18 01 06



MASTAZYME AI-ELISA washing buffer

Print date 16.10.2024 Revision date 05.01.2024

Version 1.0

## **SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	not applicable	not applicable	not applicable
14.2 Proper Shipping Name	not applicable	not applicable	not applicable
14.3 Class(es)	not applicable	not applicable	not applicable
14.4 Packing group	not applicable	not applicable	not applicable
14.5 Environmental hazards	not applicable	not applicable	not applicable
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Maritime transport in bulk according to IMO instruments	not applicable	not applicable	not applicable

#### **Additional information**

## All transport carriers

No dangerous good in sense of these transport regulations.

## **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU legislation

#### Authorisations and/or restrictions on use

#### authorisations

none

#### restrictions on use

none

## 15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

# **SECTION 16: Other information**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP] See SECTION 2.1 (classification).

# Indication of changes

not relevant

# **Additional information**

not relevant

# Relevant R-, H- and EUH-phrases (Number and full text)

none

## **Training advice**